



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107  
S-26-78

S-1  
Ch-1  
AR-6  
CMT-4  
Cease-4

**SAFETY & CHECKUP**

**REPORT OF INSPECTION**

Buchanan  
Matthews  
Mesa  
Martinez

**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

I.D. No. 2901571 - Hope Mine

Ranchers Exploration & Development Corporation  
(Name)

Mine

Typed February 27, 1978  
February 14, 1978  
(Date of Inspection)

Uranium  
(Classification of Mine)

McKinley  
(County in which located)

Garth Logsdon, Mine Superintendent  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted

**GENERAL INFORMATION**

Date of previous inspection: October 26, 27, 1977

The operation is located in Polson Canyon some 12 miles northwest of Grants, NM. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 33  
Underground 29  
Surface 4

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer  
Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day 8  
Shifts per day 3  
Days per week 5

Type of operation: modified room and pillar

Fire drill: December 14, 1977

Lost-time injuries in 1977: one

Lost-time injuries in 1978: none

First-aid training to date: 60%

Mine telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent

State of New Mexico  
Lorenzo Martinez, Deputy Inspector of Mines



**JOE D. LONGACRE, SR.**

**State Inspector of Mines**

### GENERAL HEALTH AND SAFETY

Stretchers, blankets and first-aid kits are available.

Employees are equipped with safety glasses and ear protection.

A fully equipped ambulance is kept at the mine site.

Escape routes are marked.

### HOIST

Safety dogs on cage were tested, checked and found to be in good working condition. Safety devices on the hoist were tested and checked and found to be in good working condition. Both ropes (cables) were changed 10-22-77. Physical fitness records are up to date.

### EXPLOSIVES MAGAZINES

The surface explosive magazines are posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

### VENTILATION

Air readings were taken throughout the mine and the results are as follow:

400 drift - some 7,000 c.f.m.  
409 drift - some 8,000 c.f.m.  
501 drift - some 8,000 c.f.m.  
600 drift - some 7,000 c.f.m.  
319 stope - some 10,000 c.f.m.  
204 stope - some 9,000 c.f.m.

### DIESELS

Diesel units were checked for CO, NO<sub>2</sub> and exhaust temperatures, the results are as follow:

No. 1 Harvis loader; CO - 5 PPM; NO<sub>2</sub> - 2 PPM; temperature - 120° F.  
No. 1 Elmco loader; CO - 8 PPM; NO<sub>2</sub> - 2 PPM; temperature - 120° F.  
No. 1 truck; CO - 5 PPM; NO<sub>2</sub> - 1 PPM; temperature - 115° F.  
No. 2 truck; CO - 5 PPM; NO<sub>2</sub> - 3 PPM; temperature - 110° F.

### ABATEMENT OF NOTICES ISSUED 10-27-77

Notice No. 7, SIM Rule No. 75-2(c); (57.12-32M) Abated 2-14-78.

Notice No. 8, Section 63-21-1, NMSA; (57.11-50M) Abated 2-14-78.

Notice No. 9, SIM Rule No. 71-1(c); (57.12-18M) Abated 2-14-78.

Notice No. 10, Section 63-28-6, NMSA; (57.3-22M) Abated 2-14-78.

ORDERS ISSUED 2-14-78

Order No. 1, Section 63-28-6, NMSA: Additional ground support shall be provided in 400 drift (Cease Order Issued). (57.3-22M) Abate by 2-17-78.

Order No. 2, Section 63-28-6, NMSA: Additional ground support shall be provided in 409 and 412 intersection (Cease Order Issued). (57.3-22M) Abate by 2-17-78.

Order No. 3, Section 63-28-6, NMSA: Additional ground support shall be provided in 501 south drift (Cease Order Issued). (57.3-22M) Abate by 2-17-78.

Order No. 4, Section 63-28-6, NMSA: Additional ground support shall be provided in 602 west drift (Cease Order Issued). (57.3-22M) Abate by 2-17-78.

NOTICES ISSUED 2-14-78

Notice No. 1, SIM Rule No. 71-4(c): A self-rescue shall be provided for employee working in 204 drift. (57.15-30M) Abated 2-14-78.

Notice No. 2, Section 63-28-17, NMSA: Employee shall be provided with safety glasses in 500 drift. (57.15-4M) Abated 2-14-78.

Notice No. 3, Section 63-20-6, NMSA: Long hair on employee working in 501 drift shall be contained. Abated 2-14-78.

Notice No. 4, SIM Rule No. 71-1(c): All electrical boxes shall be labeled underground and surface. (57.12-18M) Abate by 2-17-78.

Notice No. 5, SIM Rule No. 71-1(c): Blasting line shall be rehung and insulated in 400 drift. (57.6-122M) Abate by 2-17-78.

Notice No. 6, Section 63-28-6, NMSA: Additional ground support shall be provided in 319 pillar area. (57.3-22M) Abate by 2-17-78.

Notice No. 7, SIM Rule No. 71-3(c): A fire extinguisher shall be provided on No. 1 truck. (57.4-23M) Abate by 2-17-78.

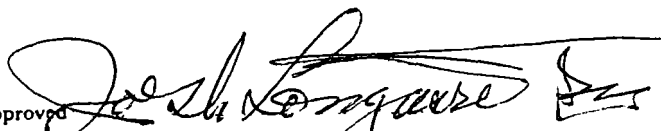
The inspection and notices issued were discussed with Mr. Logsdon after the inspection.

ACKNOWLEDGEMENT

The courtesy and cooperation of Messrs. Logsdon and Magana and all employees contacted are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

Jmz

Approved   
JOE D LONGACRE SR  
State Inspector of Mines

## Office of State Mine Inspector

Office Telephone 842-3055 Residence 344-1129

505 Marquette, N.W. Room 1103

Albuquerque, New Mexico 87501

## ORDER

TO: *Garth Loydson (Mine Supt)*ADDRESS: *Grants N Mex*

Pursuant to New Mexico State Mine Laws, Section 63-4-5 (c) & 63-4-12, and regulations adopted by this office and under the authority conferred by this office thereby — you are hereby ordered to ~~(Cease)~~ (Modify) (Correct) (Limit) all operations of

~~400 D.T. 41, 409 and 412~~  
*Intersection, 5015 Dist, 602 W DIST*  
*at Hope*

Mine for the reason *add. tunnel ground*  
*Support*

and such order will remain in effect *until Inspector*  
*checks it out and o.k. it.*

Failure to comply with this order will result in prosecution for its violation.

/s/ JOE D. LONGACRE, SR.

State Mine Inspector

by:

Deputy Mine Inspector

10130

Date *2-14-76*



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

1-20-78 ✓  
S-2  
Ch-2  
AP-2  
CMT-4

Visit  
Matthews  
Hess  
Roney

**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine  
Ranchers Exploration and Development Corporation  
(Name)

Mine

Typed November 10, 1977  
October 26, 27, 1977  
(Date of Inspection)

.... Uranium ..  
(Classification of Mine)

.... McKinley ....  
(County in which located)

Garth Logsdon, Mine Superintendent .....  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: July 25, 26, 1977

The operation is located in Poison Canyon some 12 miles northwest of Grants, NM. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 32  
Underground 28  
Surface 4

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer  
Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day 8  
Shifts per day 3  
Days per week 5

Type of operation: modified room & pillar

Fire drill: May 26, 1977

Lost-time injuries to date: one

First-aid training to date: 50%

Mine telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent  
Al Magana, Electrical Foreman

State of New Mexico  
Earl Roney, Deputy Inspector of Mines

**JOE D. LONGACRE, SR.**

**State Inspector of Mines**

#### GENERAL HEALTH AND SAFETY

Stretchers, blankets and first-aid kits are available.

Employees are equipped with safety glasses and ear protection.

A fully equipped ambulance is kept at the mine site.

Escape routes are marked.

#### HOIST

Safety dogs on cage were tested, checked and found to be in good working condition. Safety devices on the hoist were tested and checked and found to be in good working condition. Both ropes (cables) were changed 10-22-77. Physical fitness records are up to date.

#### EXPLOSIVES MAGAZINES

The surface explosive magazines are posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

#### VENTILATION

In order to be in compliance with the State and Federal safety standards, the cubic feet of air per minute required for the diesel units being used underground are 3,300. Each man shall be provided with an additional 500 c.f.m.

409 drift showed some 4,200 c.f.m.

500 drift showed some 8,500 c.f.m.

322 drift showed some 16,300 c.f.m.

#### DIESEL UNITS

Eimco 911, No. 1 front-end loader; CO - 10 PPM; NO<sub>2</sub> - 1 PPM; exhaust temperature - 110° F.

Jarvis No. 1 front-end loader; CO - no trace; NO<sub>2</sub> - no trace; exhaust temperature - 84° F.

No. 1 truck, CO - 5 PPM; NO<sub>2</sub> - 2 PPM; exhaust temperature - 110° F.

No. 2 truck, CO - no trace; NO<sub>2</sub> - no trace; exhaust temperature - 90° F.

#### GROUND SUPPORT

Rockbolts, wire mesh and stulls are being used for ground support. The company has begun pulling pillars and the stulls hold the limestone formation satisfactorily.

#### ABATEMENT OF ORDERS ISSUED 7-26-77

Order No. 1, Rule No. 3, Page 119; (57.6-47M) Abated 10-27-77.

Order No. 2, Rule No. 7, Page 124; Abated 10-27-77.

ABATEMENT OF NOTICES ISSUED 7-26-77

Notice No. 30, SIM Rule No. 71-1(c); (57.16-5M) Abated 10-27-77.  
Notice No. 31, Section 63-28-16, NMSA; (57.14-1M) Abated 10-27-77.  
Notice No. 32, Section 63-28-16, NMSA; (57.14-1M) Abated 10-27-77.  
Notice No. 33, SIM Rule No. 75-2(c); (57.12-32M) Abated 10-27-77.  
Notice No. 34, Section 63-4-12, NMSA; (57.12-34M) Abated 10-27-77.  
Notice No. 35, Section 63-28-9, NMSA; Abated 10-27-77.  
Notice No. 36, SIM Rule No. 71-1(c); (57.19-45M) Abated 10-27-77.  
Notice No. 37, Section 63-28-16, NMSA; (57.14-1M) Abated 10-27-77..  
Notice No. 38, SIM Rule No. 71-1(c); (57.4-4M) Abated 10-27-77.  
Notice No. 39, Section 63-28-16, NMSA; (57.14-1M) Abated 10-27-77.  
Notice No. 40, SIM Rule No. 74-3(c); (57.11-53M) Abated 10-27-77.  
Notice No. 41, Section 63-27-9(b), NMSA; (57.12-20M) Abated 10-27-77.

NOTICES ISSUED 10-27-77

Notice No. 1, SIM Rule No. 71-1(c): Secure oxygen cylinder in warehouse.  
(57.16-5M) Abated 10-27-77.  
Notice No. 2, SIM Rule No. 76-1(c): Remove dry weeds and wood from around oil  
storage area. (57.4-50M) Abated 10-27-77.  
Notice No. 3, SIM Rule No. 76-1(c): Remove dry weeds from the surface diesel  
storage area. (57.4-50M) Abated 10-27-77.  
Notice No. 4, SIM Rule No. 71-3(c): Provide a fire extinguisher for the surface  
diesel storage area. (57.4-23M) Abated 10-27-77.  
Notice No. 5, SIM Rule No. 71-1(c): Adjust tool rest on 1-5 shop stationary  
grinder. (57.14-8(b)M) Abated 10-27-77.  
Notice No. 6, Section 63-28-9, NMSA: Extend fan bag in 500 drift to within 30 feet  
of face. Abated 10-27-77.  
Notice No. 7, SIM Rule No. 75-2(c): Provide a junction box cover on panel in  
surface standby generator building. (57.12-32M) Abate by 10-31-77.  
Notice No. 8, Section 63-21-1, NMSA: A test run of the emergency hoist facilities  
shall be done monthly and a log kept of the results. (57.11-50M) Abate by 10-31-77.  
Notice No. 9, SIM Rule No. 71-1(c): Label switchboxes on electric panel across from  
the 1-5 fueling area. (57.12-18M) Abate by 10-31-77.

Notice No. 10, Section 63-28-6, NMSA: Additional bolting shall be provided for 410 S drift before advancing any further. (57.3-22M) Abate by 10-28-77.

The inspection and notices issued were discussed with Mr. Logsdon after the inspection.

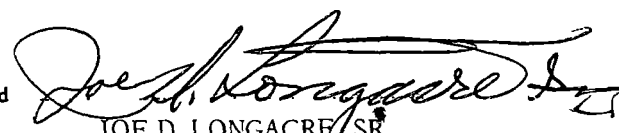
ACKNOWLEDGMENT

The courtesy and cooperation of Messrs. Logsdon and Magana and all employees contacted are hereby gratefully acknowledged.

Inspected and Reported by:  
Earl Roney  
Deputy Inspector of Mines

jmr

Approved

  
JOE D. LONGACRE SR.  
State Inspector of Mines



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

S-2  
Ch-2  
AP-2  
CMT-4

## SAFETY & CHECKUP REPORT OF INSPECTION

I.D. No. 2901571 - Hope Mine  
Ranchers Exploration and Development Corporation }  
(Name) }  
Typed November 10, 1977  
October 26, 27, 1977  
(Date of Inspection)

Uranium  
(Classification of Mine)

McKinley  
(County in which located)

Garth Logsdon, Mine Superintendent  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

## GENERAL INFORMATION

Date of previous inspection: July 25, 26, 1977

The operation is located in Poison Canyon some 12 miles northwest of Grants, NM. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

Employment:		Company Officials:
Total	32	Paul Matthews, General Manager
Underground	28	Tim Hurley, Engineer
Surface	4	Garth Lodsdon, Mine Superintendent

Work Schedule:		Type of operation:	modified room & pillar
Hours per day	8		
Shifts per day	3		
Days per week	5	Fire drill:	May 26, 1977

Lost-time injuries to date: one      First-aid training to date: 50%

Mine telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent  
Al Magana, Electrical Foreman

State of New Mexico  
Earl Roney, Deputy Inspector of Mines

**JOE D. LONGACRE, SR.**  
**State Inspector of Mines**

#### GENERAL HEALTH AND SAFETY

Stretchers, blankets and first-aid kits are available.

Employees are equipped with safety glasses and ear protection.

A fully equipped ambulance is kept at the mine site.

Escape routes are marked.

#### HOIST

Safety dogs on cage were tested, checked and found to be in good working condition. Safety devices on the hoist were tested and checked and found to be in good working condition. Both ropes (cables) were changed 10-22-77. Physical fitness records are up to date.

#### EXPLOSIVES MAGAZINES

The surface explosive magazines are posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

#### VENTILATION

In order to be in compliance with the State and Federal safety standards, the cubic feet of air per minute required for the diesel units being used underground are 3,300. Each man shall be provided with an additional 500 c.f.m.

409 drift showed some 4,200 c.f.m.

500 drift showed some 8,500 c.f.m.

322 drift showed some 16,300 c.f.m.

#### DIESEL UNITS

Eimco 911, No. 1 front-end loader; CO - 10 PPM; NO<sub>2</sub> - 1 PPM; exhaust temperature - 110° F.  
Jarvis No. 1 front-end loader; CO - no trace; NO<sub>2</sub> - no trace; exhaust temperature - 84° F.  
No. 1 truck, CO - 5 PPM; NO<sub>2</sub> - 2 PPM; exhaust temperature - 110° F.  
No. 2 truck, CO - no trace; NO<sub>2</sub> - no trace; exhaust temperature - 90° F.

#### GROUND SUPPORT

Rockbolts, wire mesh and stulls are being used for ground support. The company has begun pulling pillars and the stulls hold the limestone formation satisfactorily.

#### ABATEMENT OF ORDERS ISSUED 7-26-77

Order No. 1, Rule No. 3, Page 119; (57.6-47M) Abated 10-27-77.

Order No. 2, Rule No. 7, Page 124; Abated 10-27-77.

ABATEMENT OF NOTICES ISSUED 7-26-77

Notice No. 30, SIM Rule No. 71-1(c); (57.16-5M) Abated 10-27-77.  
Notice No. 31, Section 63-28-16, NMSA; (57.14-1M) Abated 10-27-77.  
Notice No. 32, Section 63-28-16, NMSA; (57.14-1M) Abated 10-27-77.  
Notice No. 33, SIM Rule No. 75-2(c); (57.12-32M) Abated 10-27-77.  
Notice No. 34, Section 63-4-12, NMSA; (57.12-34M) Abated 10-27-77.  
Notice No. 35, Section 63-28-9, NMSA; Abated 10-27-77.  
Notice No. 36, SIM Rule No. 71-1(c); (57.19-45M) Abated 10-27-77.  
Notice No. 37, Section 63-28-16, NMSA; (57.14-1M) Abated 10-27-77..  
Notice No. 38, SIM Rule No. 71-1(c); (57.4-4M) Abated 10-27-77.  
Notice No. 39, Section 63-28-16, NMSA; (57.14-1M) Abated 10-27-77.  
Notice No. 40, SIM Rule No. 74-3(c); (57.11-53M) Abated 10-27-77.  
Notice No. 41, Section 63-27-9(b), NMSA; (57.12-20M) Abated 10-27-77.

NOTICES ISSUED 10-27-77

Notice No. 1, SIM Rule No. 71-1(c): Secure oxygen cylinder in warehouse.  
(57.16-5M) Abated 10-27-77.  
Notice No. 2, SIM Rule No. 76-1(c): Remove dry weeds and wood from around oil  
storage area. (57.4-50M) Abated 10-27-77.  
Notice No. 3, SIM Rule No. 76-1(c): Remove dry weeds from the surface diesel  
storage area. (57.4-50M) Abated 10-27-77.  
Notice No. 4, SIM Rule No. 71-3(c): Provide a fire extinguisher for the surface  
diesel storage area. (57.4-23M) Abated 10-27-77.  
Notice No. 5, SIM Rule No. 71-1(c): Adjust tool rest on 1-5 shop stationary  
grinder. (57.14-8(b)M) Abated 10-27-77.  
Notice No. 6, Section 63-28-9, NMSA: Extend fan bag in 500 drift to within 30 feet  
of face. Abated 10-27-77.  
Notice No. 7, SIM Rule No. 75-2(c): Provide a junction box cover on panel in  
surface standby generator building. (57.12-32M) Abate by 10-31-77.  
Notice No. 8, Section 63-21-1, NMSA: A test run of the emergency hoist facilities  
shall be done monthly and a log kept of the results. (57.11-50M) Abate by 10-31-77.  
Notice No. 9, SIM Rule No. 71-1(c): Label switchboxes on electric panel across from  
the 1-5 fueling area. (57.12-18M) Abate by 10-31-77.

Company No. 3; Manufactured by Eimco; Type of vehicle - loader; passenger load - one; Kind of engine - Deutz; Cylinders - three; Engine No. 5659366; Model No. F3L912W; Serial No. 2008; Brake horsepower - 39; Type of scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire extinguisher; temperature - 130° F.; CO - 8 PPM; NO2 - 2 PPM.

Issued Permit No. 570993.

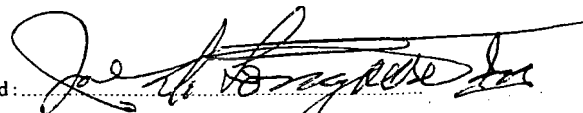
ACKNOWLEDGEMENT

The courtesy and cooperation extended during this inspection are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

jmz

Approved: \_\_\_\_\_



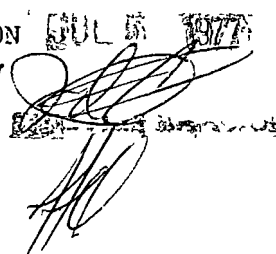
JOE D. LONGACRE, SR.  
State Inspector of Mines

15.16

RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR  
MINING ENFORCEMENT AND SAFETY ADMINISTRATION  
Metal and Nonmetal Mine Health and Safety

South Central District  
1100 Commerce Street  
Dallas, Texas 75202

JUL 5 1977  


Ranchers Exploration Development Corporation  
Hope Mine  
P.O. Box 6217  
Albuquerque, New Mexico 87107

SUPPLEMENT To Inspection No. 4  
Date(s) of Inspection May 16, 1977  
Inspector(s) Omer H. Sauvageau  
Identification No. 29-01571

Air samples collected during the above-referenced inspection indicate the air was of satisfactory quality at the times and places of sampling.

TABLE 1 - ANALYSES OF AIR SAMPLES COLLECTED 5-16-77 MINE ID 29-01571

MINE/MILL Hope Mine COMPANY Rancher's Exploration STATE NM

COLLECTED BY O.H. Sauvageau SUBDISTRICT OFFICE Albuquerque, NM DATE REC'D 5-23-77

BOTTLE NUMBER	LAB NUMBER	LOCATION IN MINE	DATE AND TIME	CARBON DIOXIDE	OXYGEN	METHANE	CARBON MONOXIDE	
14276	G7-1352	Exhaust Hole Bore	5-16-77 9:50	.07	20.88	.00	.0003	

DATE 5-26-77

STAMP

*Fred C. Rine*



**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107  
10-25-79

Kauttman  
Matthews  
Lunger

**SAFETY FIRST**



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

S-1  
ch-1  
AR-2  
CMT-4

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine  
Ranchers Exploration and Development Corporation { Mine  
(Name) }  
Typed October 17, 1979  
October 10, 1979...  
(Date of Inspection)

Uranium McKinley Tim Hurley, Mine Superintendent  
(Classification of Mine) (County in which located) (Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted

**GENERAL INFORMATION**

Date of previous inspection: July 10, 1979

The operation is located in Polson Canyon some twelve miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

Employment:		Company Officials:
Total	15	Paul Matthews, General Manager
Underground	13	Tim Hurley, Mine Superintendent
Surface	2	
Work Schedule:		Type of operation: modified room and pillar
Hours per day	8	Lost-time injuries to date: none
Shifts per day	1	First-aid training to date: 65%
Days per week	5	

Fire drill held July 5, 1979

Inspection Party: Ranchers Exploration and Development Corporation  
Tim Hurley, Mine Superintendent

State of New Mexico  
Charles D. Lungert, Deputy Inspector of Mines

**GENERAL HEALTH AND SAFETY**

Stretchers, blankets and first-aid kits are available. Employees are equipped with safety glasses and ear protection. A fully equipped ambulance is kept at the mine site. Escape routes are marked.

JOE D. LONGACRE, SR.  
State Inspector of Mines

### HOIST

Safety dogs on cage were tested, checked and found to be in good working order. Safety devices on the hoist were tested and checked and found to be in good working condition. Physical fitness records are up to date. Emergency hoist is checked every month. Last time checked was September 13, 1979. New ropes (cables) were installed September 8, 1979, both sides.

### EXPLOSIVES MAGAZINES

The surface explosive magazines were posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

### VENTILATION

Air readings were taken throughout the mine and the results are as follow:

801 haulage drift - some 6,000 c.f.m.  
854 drift heading - some 4,000 c.f.m.

### DIESEL

Diesel units were checked for CO, NO2 and exhaust temperatures, the results are as follow:

Company No. 3 loader; CO - 7 PPM; NO2 - 3 PPM; temperature - 120° F.  
Company No. 1 loader; CO - 3 PPM; NO2 - 1 PPM; temperature - 120° F.  
Company No. 2 truck; CO - 3 PPM; NO2 - 2 PPM; temperature - 125° F.  
Company No. 3 truck; CO - trace; NO2 - 1 PPM; temperature - 115° F.

### ABATEMENT OF NOTICES ISSUED 7-10-79

Notice No. 3, Section 69-35-6, NMSA; (57.3-22M) Abated 10-10-79.

Notice No. 4, SIM Rule No. 71-1(c); (57.9-5M) Abated 10-10-79.

Notice No. 5, SIM Rule No. 71-1(c); (57.9-5M) Abated 10-10-79.

Notice No. 6, Section 69-35-6, NMSA; (57.3-22M) Abated 10-10-79.

Notice No. 7, Section 69-34-5, NMSA; (57.11-12M) Abated 10-10-79.

### NOTICES ISSUED 10-10-79

Notice No. 1, SIM Rule No. 71-1(c): Rehang and insulate blasting line in 500 drift. (57.6-122M) Abated 10-10-79.

Notice No. 2, Section 69-35-6, NMSA: Provide additional ground support 801 stope before anymore work is performed. (57.3-22M) Abate by 10-12-79.



Notice No. 3, Section 69-35-6, NMSA: Provide additional ground support in 854 and 856 drifts. (57.3-22M) Abate by 10-12-79.

Notice No. 4, SIM Rule No. 71-1(c): Provide "No Smoking or Open Flame" signs at oil storage on surface (fire hazard). (57.4-4M) Abate by 10-12-79.

The inspection and notices issued were discussed with Mr. Hurley after the completion of the inspection.

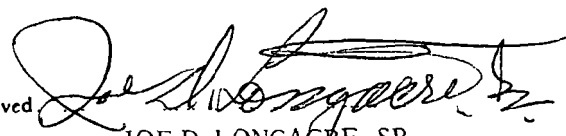
ACKNOWLEDGEMENT

The courtesy and cooperation of Mr. Tim Hurley and all employees are hereby gratefully acknowledged.

Inspected and Reported by:  
Charles D. Lunger  
Deputy Inspector of Mines

jnz

Approved



JOE D. LONGACRE SR.  
State Inspector of Mines



**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

**SAFETY FIRST**



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine

Ranchers Exploration and Development Corporation {  
(Name)

Mine

Typed October 17, 1979

October 10, 1979

(Date of Inspection)

Uranium

(Classification of Mine)

McKinley

(County in which located)

Tim Hurley, Mine Superintendent

(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: July 10, 1979

The operation is located in Poison Canyon some twelve miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 15  
Underground 13  
Surface 2

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Mine Superintendent

Type of operation: modified room and pillar

**Work Schedules:**

Hours per day 8  
Shifts per day 1  
Days per week 5

Lost-time injuries to date: none

First-aid training to date: 653

Fire drill held July 5, 1979

Inspection Party: Ranchers Exploration and Development Corporation  
Tim Hurley, Mine Superintendent

State of New Mexico

Charles D. Linger, Deputy Inspector of Mines

**GENERAL HEALTH AND SAFETY**

Stretchers, blankets and first-aid kits are available. Employees are equipped with safety glasses and ear protection. A fully equipped ambulance is kept at the mine site. Escape routes are marked.

JOE D. LONGACRE, SR.

State Inspector of Mines

### HOIST

Safety dogs on cage were tested, checked and found to be in good working order. Safety devices on the hoist were tested and checked and found to be in good working condition. Physical fitness records are up to date. Emergency hoist is checked every month. Last time checked was September 13, 1979. New ropes (cables) were installed September 3, 1979, both sides.

### EXPLOSIVES MAGAZINES

The surface explosive magazines were posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

### VENTILATION

Air readings were taken throughout the mine and the results are as follows:

801 haulage drift - some 6,000 c.f.m.  
854 drift heading - some 4,000 c.f.m.

### DIESEL

Diesel units were checked for CO, NO2 and exhaust temperatures, the results are as follows:

Company No. 3 loader; CO - 7 PPM; NO2 - 3 PPM; temperature - 120° F.  
Company No. 1 loader; CO - 3 PPM; NO2 - 1 PPM; temperature - 120° F.  
Company No. 2 truck; CO - 3 PPM; NO2 - 2 PPM; temperature - 125° F.  
Company No. 3 truck; CO - trace; NO2 - 1 PPM; temperature - 115° F.

### ABATEMENT OF NOTICES ISSUED 7-10-79

Notice No. 3, Section 69-35-6, MMSA; (57.3-22H) Abated 10-10-79.

Notice No. 4, SM Rule No. 71-1(c); (57.9-5H) Abated 10-10-79.

Notice No. 5, SM Rule No. 71-1(c); (57.9-5H) Abated 10-10-79.

Notice No. 6, Section 69-35-6, MMSA; (57.3-22H) Abated 10-10-79.

Notice No. 7, Section 69-34-5, MMSA; (57.11-12H) Abated 10-10-79.

### NOTICES ISSUED 10-10-79

Notice No. 1, SM Rule No. 71-1(c): Reinforce and insulate blasting line in 500 drift. (57.6-122H) Abated 10-10-79.

Notice No. 2, Section 69-35-6, MMSA: Provide additional ground support 801 stope before anymore work is performed. (57.3-22H) Abate by 10-12-79.

Notice No. 3, Section 69-35-6, MISA: Provide additional ground support in 354 and 856 drifts. (57.3-22H) Abate by 10-12-79.

Notice No. 4, SM Rule No. 71-1(c): Provide "No Smoking or Open Flame" signs at all storage on surface (fire hazard). (57.4-4H) Abate by 10-12-79.

The inspection and notices issued were discussed with Mr. Murley after the completion of the inspection.

**ACKNOWLEDGMENT**

The courtesy and cooperation of Mr. Tim Murley and all employees are hereby gratefully acknowledged.

Inspected and Reported by:  
Charles D. Linger  
Deputy Inspector of Mines

jam

Approved



JOE D. LONGACRE, SR.  
State Inspector of Mines

Kautzman  
Matthews  
Lunger



**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107  
8-22-79

**SAFETY FIRST**



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine  
Ranchers Exploration and Development Corporation {  
(Name)

Mine

Typed July 18, 1979  
July 10, 1979  
(Date of Inspection)

Uranium

(Classification of Mine)

McKinley

(County in which located)

Garth Logsdon, Mine Superintendent

(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: February 21, 1979

The operation is located in Poison Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 28  
Underground 25  
Surface 3

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer  
Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of operation: modified room and pillar

Fire drill: July 5, 1979

Lost-time injuries to date: none

First-aid training to date: 80%

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent  
David Butler, Mechanical Supervisor

State of New Mexico

Charles D. Lunger, Deputy Inspector of Mines

**GENERAL HEALTH AND SAFETY**

Stretchers, blankets and first-aid kits are available. Employees are equipped with safety glasses and ear protection. A fully equipped ambulance is kept at the mine.

JOE D. LONGACRE, SR.

State Inspector of Mines

site. Escape routes are marked.

#### HOIST

Safety dogs on cage were tested, checked and found to be in good working order. Safety devices on the hoist were tested and checked and found to be in good working condition. Physical fitness records are up to date. Emergency hoist is checked every month. Last time checked was June 26, 1979. Both ropes (cables) were cut on drum end on May 12, 1979.

#### EXPLOSIVES MAGAZINES

The surface explosive magazines were posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

#### VENTILATION

Air readings were taken throughout the mine and the results are as follow:

701 west - some 2,800 c.f.m.  
800 drift - some 9,500 c.f.m.  
850 drift - some 2,300 c.f.m.  
209 area - some 3,300 c.f.m.

#### DIESEL

Diesel units were checked for CO, NO2 and exhaust temperatures, the results are as follow:

Company No. 3 loader; CO - 5 PPM; NO2 - 2 PPM; temperature - 110° F.  
Company No. 3 truck; CO - 5 PPM; NO2 - 2 PPM; temperature - 115° F.  
Company No. 1 truck; CO - 3 PPM; NO2 - 4 PPM; temperature - 120° F.

#### ABATEMENT OF NOTICES ISSUED 2-21-79

Notice No. 3, Section 69-35-6, NMSA; (57.3-22M) Abated 7-10-79.

Notice No. 4, Section 69-35-6, NMSA; (57.3-22M) Abated 7-10-79.

#### ORDERS ISSUED 7-10-79

Order No. 1, Section 69-35-6, NMSA: Bolt and wire back before any more work is performed in 701 west (Red Tag issued). (57.3-22M) Abated 7-10-79.

#### NOTICES ISSUED 7-10-79

Notice No. 1, Section 69-27-6, NMSA: "Keep Out - Open Stope" sign shall be posted at 209 stope. (57.5-28M) Abated 7-10-79.

Notice No. 2, Rules and Regulations Governing Diesel Equipment, Rule No. 4(b), Page 112: Provide sufficient ventilation before any more work is performed in 850 haulage drift. Abated 7-10-79.

Notice No. 3, Section 69-35-6, NMSA: Provide additional ground support at 500-700 Intersection. (57.3-22M) Abate by 7-24-79.

Notice No. 4, SIM Rule No. 71-1(c): Provide horn on Company No. 3 loader. (57.9-5M) Abate by 7-24-79.

Notice No. 5, SIM Rule No. 71-1(c): Provide horn on Company No. 1 truck. (57.9-5M) Abate by 7-24-79.

Notice No. 6, Section 69-35-6, NMSA: Provide additional ground support in 209 access drift. (57.3-22M) Abate by 7-24-79.

Notice No. 7, Section 69-34-5, NMSA: Provide warning devices at slusher trench on 1-5 level at main shaft. (57.11-12M) Abate by 7-24-79.

The inspection and notices issued were discussed with Mr. Logsdon after the completion of the inspection.

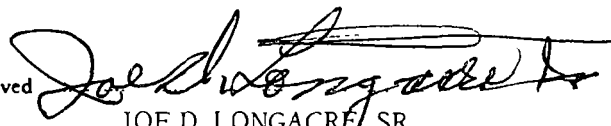
#### ACKNOWLEDGEMENT

The courtesy and cooperation of Messrs. Logsdon and Butler and all employees are hereby gratefully acknowledged.

Inspected and Reported by:  
Charles D. Lunger  
Deputy Inspector of Mines

jmz

Approved

  
JOE D. LONGACRE SR.  
State Inspector of Mines



**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

**SAFETY FIRST**



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine  
Ranchers Exploration and Development Corporation {  
(Name)

Mine

Typed July 18, 1979  
July 10, 1979  
(Date of Inspection)

Uranium

McKinley

Garth Logsdon, Mine Superintendent

(Classification of Mine)

(County in which located)

(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: February 21, 1979

The operation is located in Polson Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Hope-Ran Development Corporation.

**Employment:**

Total 28  
Underground 25  
Surface 3

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer  
Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of operation: modified room and pillar

Fire drill: July 5, 1979

Lost-time injuries to date: none

First-aid training to date: 80%

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent  
David Butler, Mechanical Supervisor

State of New Mexico

Charles D. Lunger, Deputy Inspector of Mines

**GENERAL HEALTH AND SAFETY**

Stretchers, blankets and first-aid kits are available. Employees are equipped with safety glasses and ear protection. A fully equipped ambulance is kept at the mine

JOE D. LONGACRE, SR.

State Inspector of Mines



site. Escape routes are marked.

#### HOIST

Safety dogs on cages were tested, checked and found to be in good working order. Safety devices on the hoist were tested and checked and found to be in good working condition. Physical fitness records are up to date. Emergency hoist is checked every month. Last time checked was June 26, 1979. Both ropes (cables) were cut on drum end on May 12, 1979.

#### EXPLOSIVES MAGAZINES

The surface explosive magazines were posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

#### VENTILATION

Air readings were taken throughout the mine and the results are as follow:

701 west - some 2,800 c.f.m.  
800 drift - some 9,500 c.f.m.  
850 drift - some 2,300 c.f.m.  
209 area - some 3,300 c.f.m.

#### DIESEL

Diesel units were checked for CO, NO2 and exhaust temperatures, the results are as follow:

Company No. 3 loader; CO - 5 PPM; NO2 - 2 PPM; temperature - 110° F.  
Company No. 3 truck; CO - 5 PPM; NO2 - 2 PPM; temperature - 115° F.  
Company No. 1 truck; CO - 3 PPM; NO2 - 4 PPM; temperature - 120° F.

#### ABATEMENT OF NOTICES-ISSUED-2-21-79

Notice No. 3, Section 69-35-6, HNSA; (57.3-22M) Abated 7-10-79.

Notice No. 4, Section 69-35-6, HNSA; (57.3-22M) Abated 7-10-79.

#### ORDERS ISSUED 7-10-79

Order No. 1, Section 69-35-6, HNSA: Bolt and wire back before any more work is performed in 701 west (Red Tag issued). (57.3-22M) Abated 7-10-79.

#### NOTICES ISSUED 7-10-79

Notice No. 1, Section 69-27-6, HNSA: "Keep Out - Open Stopa" sign shall be posted at 209 stopa. (57.5-28M) Abated 7-10-79.

Notice No. 2, Rules and Regulations Governing Diesel Equipment, Rule No. 4(b), Page 112: Provide sufficient ventilation before any more work is performed in 850 haulage drift. Abated 7-10-79.

Notice No. 3, Section 69-35-6, MMSA: Provide additional ground support at 500-700 intersection. (57.3-22M) Abate by 7-24-79.

Notice No. 4, SM Rule No. 71-1(c): Provide horn on Company No. 3 loader. (57.9-5M) Abate by 7-24-79.

Notice No. 5, SM Rule No. 71-1(c): Provide horn on Company No. 1 truck. (57.9-5M) Abate by 7-24-79.

Notice No. 6, Section 69-35-6, MMSA: Provide additional ground support in 209 access drift. (57.3-22M) Abate by 7-24-79.

Notice No. 7, Section 69-34-5, MMSA: Provide warning devices at slusher trench on 1-5 level at main shaft. (57.11-12M) Abate by 7-24-79.

The inspection and notices issued were discussed with Mr. Logsdon after the completion of the inspection.

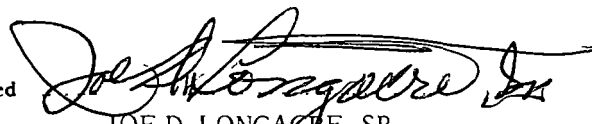
#### ACKNOWLEDGEMENT

The courtesy and cooperation of Messrs. Logsdon and Butler and all employees are hereby gratefully acknowledged.

Inspected and Reported by:  
Charles B. Lungar  
Deputy Inspector of Mines

Jmz

Approved

  
JOE D. LONGACRE, SR.  
State Inspector of Mines

JOE D LONGACRE, SR  
STATE INSPECTOR OF MINES  
Energy and Minerals Department  
Bureau of Mine Inspection  
2340 Menaul, N E, Suite 106  
Albuquerque, New Mexico 87107

Safety First



Office Telephone 842-3055  
Residence Phone 344-1129

**PERMIT**  
**TO USE DIESEL POWERED EQUIPMENT**  
**IN UNDERGROUND MINE OPERATIONS**

Date March 13, 1979 No. 570390

1. Owner of Mine Ranchers Exploration & Development Corporation
2. Name and location of Mine Hope Mine, Grants, NM
3. General Manager A. Buchanan
4. Location in mine where equipment will be used — throughout
5. Type of Equipment Company No. 3; Manufactured by Young Machine; Type of vehicle -  
truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No.  
5946646; Model No. F4L912W; Serial No. 5178; Brake horsepower - 52; Type of  
scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking,  
fire extinguisher; temperature - 120° F.; CO - 7 PPM; NO2 - 2 PPM.

6. Period of time equipment will be used in mine — indefinite
7. Effective date of permit from February 28, 1979 to indefinite

**CONDITIONS**

- 1 This permit is issued subject to the related state mine laws and rules, procedures and regulations adopted by the office of the State Mine Inspector. Failure to comply with these laws or regulations automatically revokes this permit and will subject the violator to sanctions imposed by law, and such unit will be ordered out of mine
- 2 This permit will be renewed upon application to the office of the State Mine Inspector
- 3 This permit shall be kept in the Mine Office files and displayed upon request of the State Mine Inspector or any of his Deputies
- 4 This permit is Valid only for the Above Mine

By Lorenzo Martinez  
Deputy Mine Inspector

Joe D Longacre, Sr  
State Inspector of Mines

JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES  
Energy and Minerals Department  
Bureau of Mine Inspection  
2340 Menaul, N E, Suite 106  
Albuquerque, New Mexico 87107

Safety First



Office Telephone 842-3055  
Residence Phone 344-1129

**PERMIT**  
**TO USE DIESEL POWERED EQUIPMENT**  
**IN UNDERGROUND MINE OPERATIONS**

Date March 13, 1979 No 570991

1. Owner of Mine Ranchers Exploration and Development Corporation

2. Name and location of Mine Hope Mine, Grants, NM

3. General Manager A. Buchanan

4. Location in mine where equipment will be used — throughout

5. Type of Equipment Company No. 1; Manufactured by Young Machine; Type of vehicle - truck;  
passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No. 05552;  
Model No. F4L912W; Serial No. S147; Brake horsepower - 52; Type of scrubber - PTX;  
Equipped with horn, lights - front and rear, brakes - foot and parking, fire  
extinguisher; temperature - 110° F.; CO - 10 PPM; NO2 - 3 PPM.

6. Period of time equipment will be used in mine — indefinite

7. Effective date of permit from February 28, 1979 to indefinite

**CONDITIONS**

- 1 This permit is issued subject to the related state mine laws and rules, procedures and regulations adopted by the office of the State Mine Inspector. Failure to comply with these laws or regulations automatically revokes this permit and will subject the violator to sanctions imposed by law, and such unit will be ordered out of mine
- 2 This permit will be renewed upon application to the office of the State Mine Inspector
- 3 This permit shall be kept in the Mine Office files and displayed upon request of the State Mine Inspector or any of his Deputies
- 4 This permit is Valid only for the Above Mine

By Lorenzo Martinez  
Deputy Mine Inspector

Joe D. Longacre, Sr.  
State Inspector of Mines

JOE D. LONGACRE, SR  
STATE INSPECTOR OF MINES  
Energy and Minerals Department  
Bureau of Mine Inspection  
2340 Menaul, N E, Suite 106  
Albuquerque, New Mexico 87107

Safety First



Office Telephone 842-3055  
Residence Phone 344-1129

**PERMIT**  
**TO USE DIESEL POWERED EQUIPMENT**  
**IN UNDERGROUND MINE OPERATIONS**

Date March 13, 1979 No. 570992

1. Owner of Mine Ranchers Exploration and Development Corporation

2. Name and location of Mine Hope Mine, Grants, NM

3. General Manager A. Buchanan

4. Location in mine where equipment will be used — throughout

5. Type of Equipment Company No. 2; Manufactured by Young Machine; Type of vehicle -  
truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No.  
5705558; Model No. F4L912W; Serial No. S148; Brake horsepower - 52; Type of scrubber -  
PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire  
extinguisher; temperature - 115° F.; CO - 12 PPM; NO2 - 2 PPM.

6. Period of time equipment will be used in mine — indefinite

7. Effective date of permit from February 28, 1979 to indefinite

**CONDITIONS**

- 1 This permit is issued subject to the related state mine laws and rules, procedures and regulations adopted by the office of the State Mine Inspector. Failure to comply with these laws or regulations automatically revokes this permit and will subject the violator to sanctions imposed by law, and such unit will be ordered out of mine.
- 2 This permit will be renewed upon application to the office of the State Mine Inspector.
- 3 This permit shall be kept in the Mine Office files and displayed upon request of the State Mine Inspector or any of his Deputies.
- 4 This permit is Valid only for the Above Mine.

By Lorenzo Martinez  
Deputy Mine Inspector

Joe D. Longacre, Sr.  
State Inspector of Mines

JOE D. LONGACRE, SR  
STATE INSPECTOR OF MINES  
Energy and Minerals Department  
Bureau of Mine Inspection  
2340 Menaul, N.E., Suite 106  
Albuquerque, New Mexico 87107

Safety First



Office Telephone 842-3055  
Residence Phone 344-1129

**PERMIT**  
**TO USE DIESEL POWERED EQUIPMENT**  
**IN UNDERGROUND MINE OPERATIONS**

Date March 13, 1979 No. 570993

1. Owner of Mine Ranchers Exploration and Development Corporation
2. Name and location of Mine Hope Mine, Grants, NM
3. General Manager A. Buchanan
4. Location in mine where equipment will be used — throughout
5. Type of Equipment Company No. 3; Manufactured by Eimco; Type of vehicle - loader;  
passenger load - one; Kind of engine - Deutz; Cylinders - three; Engine No. 5659366;  
Model No. F3L912W; Serial No. 2008; Brake horsepower - 39; Type of scrubber - PTX;  
Equipped with horn, lights - front and rear, brakes - foot and parking, fire  
extinguisher; temperature - 130° F.; CO - 8 PPM; H02 - 2 PPM.
6. Period of time equipment will be used in mine — indefinite
7. Effective date of permit from February 28, 1979 to indefinite

**CONDITIONS**

- 1 This permit is issued subject to the related state mine laws and rules, procedures and regulations adopted by the office of the State Mine Inspector. Failure to comply with these laws or regulations automatically revokes this permit and will subject the violator to sanctions imposed by law, and such unit will be ordered out of mine
- 2 This permit will be renewed upon application to the office of the State Mine Inspector
- 3 This permit shall be kept in the Mine Office files and displayed upon request of the State Mine Inspector or any of his Deputies
- 4 This permit is Valid only for the Above Mine

By Lorenzo Martinez  
Deputy Mine Inspector

Joe D. Longacre, Sr.  
State Inspector of Mines



**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107  
3/30/79

SAFETY FIRST



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

CMT-4

OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

DIESEL

**REPORT OF INSPECTION**

I.D. No. 2901571

Hope Mine (Ranchers Exploration & Development Corp.)  
(Name)

Mine

Typed March 13, 1979  
February 28, 1979  
(Date of Inspection)

Uranium

(Classification of Mine)

McKinley

(County in which located)

(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

This inspection was carried out in compliance with the New Mexico Mine Safety Code, Rule No. 12 of the Rules Governing Diesel Equipment in the underground mines for the State of New Mexico, to be placed in service in the Hope Mine underground, with the following characteristics was inspected:

Company No. 3; Manufactured by Young Machine; Type of vehicle - truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No. 5946646; Model No. F4L912W; Serial No. 5178; Brake horsepower - 52; Type of scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire extinguisher; temperature - 120° F.; CO - 7 PPM; NO2 - 2 PPM.

Issued Permit No. 570990.

Company No. 1; Manufactured by Young Machine; Type of vehicle - truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No. 05552; Model No. F4L912W; Serial No. S147; Brake horsepower - 52; Type of scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire extinguisher; temperature - 110° F.; CO - 10 PPM; NO2 - 3 PPM.

Issued Permit No. 570991.

Company No. 2; Manufactured by Young Machine; Type of vehicle - truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No. 5705558; Model No. F4L912W; Serial No. S148; Brake horsepower - 52; Type of scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire extinguisher; temperature - 115° F.; CO - 12 PPM; NO2 - 2 PPM.

Issued Permit No. 570992.

**JOE D. LONGACRE, SR.**  
State Inspector of Mines

Company No. 3; Manufactured by Elmco; Type of vehicle - loader; passenger load - one; Kind of engine - Deutz; Cylinders - three; Engine No. 5659366; Model No. F3L912W; Serial No. 2008; Brake horsepower - 39; Type of scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire extinguisher; temperature - 130° F.; CO - 8 PPM; NO2 - 2 PPM.

Issued Permit No. 570993.

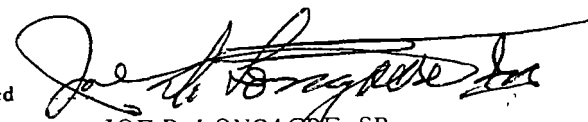
ACKNOWLEDGEMENT

The courtesy and cooperation extended during this inspection are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

jnz

Approved

  
JOE D LONGACRE, SR.  
State Inspector of Mines





**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

**SAFETY FIRST**



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

DIESEL

**REPORT OF INSPECTION**

I.O. No. 2301571

Hope Mine (Ranchera Exploration & Development Corp.)  
(Name)

Mine

Typed March 13, 1979  
February 28, 1979  
(Date of Inspection)

Uranium

(Classification of Mine)

McKinley

(County in which located)

(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

This inspection was carried out in compliance with the New Mexico Mine Safety Code, Rule No. 12 of the Rules Governing Diesel Equipment in the underground mines for the State of New Mexico, to be placed in service in the Hope Mine underground, with the following characteristics was inspected:

Company No. 3; Manufactured by Young Machine; Type of vehicle - truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No. 5946646; Model No. F4L912W; Serial No. 5178; Brake horsepower - 52; Type of scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire extinguisher; temperature - 120° F.; CO - 7 PPM; H2 - 2 PPM.

Issued Permit No. 570990.

Company No. 1; Manufactured by Young Machine; Type of vehicle - truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No. 05552; Model No. F4L912W; Serial No. 5147; Brake horsepower - 52; Type of scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire extinguisher; temperature - 110° F.; CO - 10 PPM; H2 - 3 PPM.

Issued Permit No. 570991.

Company No. 2; Manufactured by Young Machine; Type of vehicle - truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No. 5705558; Model No. F4L912W; Serial No. 5148; Brake horsepower - 52; Type of scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire extinguisher; temperature - 115° F.; CO - 12 PPM; H2 - 2 PPM.

Issued Permit No. 570992.

JOE D. LONGACRE, SR.

State Inspector of Mines

Company No. 3; Manufactured by Elmco; Type of vehicle - loader; passenger load - one; Kind of engine - Dautz; Cylinders - three; Engine No. 5659966; Model No. F3L912V; Serial No. 2008; Brake horsepower - 39; Type of scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire extinguisher; temperature - 130° F.; CO - 8 PPM; HD2 - 2 PPM.

Issued Permit No. 570993.

ACKNOWLEDGEMENT

The courtesy and cooperation extended during this inspection are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

Jmz

Approved

  
JOE D. LONGACRE SR.  
State Inspector of Mines



**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107  
3/30/79

Duchon  
Matthews  
Martinez

**SAFETY FIRST**



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

S-1  
Oh-1  
AR-3  
CH-1

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine  
Ranchers Exploration & Development Corporation  
(Name)

Mine

Typed March 8, 1979  
February 21, 1979  
(Date of Inspection)

Uranium  
(Classification of Mine)

McKinley  
(County in which located)

Garth Logsdon, Mine Superintendent  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: November 13, 1978

The operation is located in Pôlson Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 27  
Underground 24  
Surface 3

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer  
Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of operation: modified room and pillar

Fire drill: November 8, 1978

Lost-time injuries in 1979: none First-aid training to date: 90%

Mine telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent

State of New Mexico  
Lorenzo Martínez, Deputy Inspector of Mines

JOE D. LONGACRE, SR.  
State Inspector of Mines

### GENERAL HEALTH AND SAFETY

Stretchers, blankets, and first-aid kits are available. Employees are equipped with safety glasses and ear protection. A fully equipped ambulance is kept at the mine site. Escape routes are marked.

### HOIST

Safety dogs on cage were tested, checked and found to be in good working order. Safety devices on the hoist were tested and checked and found to be in good working condition. Both ropes (cables) were changed 10-22-77. Physical fitness records are up to date. Emergency hoist is checked every month. Last time checked was June 17, 1978.

### EXPLOSIVES MAGAZINES

The surface explosive magazines were posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

### VENTILATION

Air readings were taken throughout the mine and the results are as follow:

702 east drift - some 6,500 c.f.m.  
605 drift - some 6,000 c.f.m.  
407 drift - some 7,000 c.f.m.  
900 (no ventilation - closed)

### DIESEL

Diesel units were checked for CO, NO<sub>2</sub> and exhaust temperatures, results are as follow:

No. 1 truck; CO - 5 PPM; NO<sub>2</sub> - 2 PPM; temperature - 120° F.  
No. 2 truck; In shop for repairs.  
No. 2 loader; In shop for repairs.  
No. 1 loader; In shop for repairs.

### ABATEMENT OF ORDER ISSUED 11-13-78

Order No. 2, SIM Rule No. 71-1(c); (57.9-3M) Abated 2-21-79.

### ABATEMENT OF NOTICES ISSUED 11-13-78

Notice No. 3, Section 63-28-6, NMSA; (57.3-22M) Abated 2-21-79.

Notice No. 4, Section 63-28-6, NMSA; (57.3-22M) Abated 2-21-79.

### NOTICES ISSUED 2-21-79

Notice No. 1, SIM Rule No. 71-1(c): A "Keep Out" sign shall be provided in 701 east drift for no ventilation. (57.5-28M) Abated 2-21-79.

Notice No. 2, SIM Rule No. 71-2(c): Gate on transformer next to shop on surface shall be closed and locked. (57.12-68M) Abated 2-21-79.

Notice No. 3, Section 69-35-6, NMSA: Additional ground support shall be provided in 600 and 605 intersection on ribs. (57.3-22M) Abate by 2-22-79.

Notice No. 4, Section 69-35-6, NMSA: Additional ground support shall be provided in 500 drift 200 feet from elec. station. (57.3-22M) Abate by 2-22-79.

The inspection and notices issued were discussed with Mr. Logsdon after the inspection.

#### ACKNOWLEDGEMENT


The courtesy and cooperation of Messrs. Logsdon and Magana and all employees contacted, are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

Jmz

L. A. Quinones

Approved

  
JOE D. LONGACRE SR.  
Acting State Inspector of Mines

JOE D. LONGACRE, SR  
STATE INSPECTOR OF MINES  
Energy and Minerals Department  
Bureau of Mine Inspection  
2340 Menaul, N.E., Suite 106  
Albuquerque, New Mexico 87107

Safety First



Office Telephone 842-3055  
Residence Phone 344-1129

**PERMIT**  
**TO USE DIESEL POWERED EQUIPMENT**  
**IN UNDERGROUND MINE OPERATIONS**

Date March 13, 1979 No. 570990

1. Owner of Mine Ranchers Exploration & Development Corporation
2. Name and location of Mine Hope Mine, Grants, NM
3. General Manager A. Buchanan
4. Location in mine where equipment will be used — throughout
5. Type of Equipment Company No. 3; Manufactured by Young Machine; Type of vehicle -  
truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No.  
5946646; Model No. F4L912W; Serial No. 5178; Brake horsepower - 52; Type of  
scrubber - PTX; Equipped with horn, lights - front and rear, brakes - foot and parking,  
fire extinguisher; temperature - 120° F.; CO - 7 PPM; NO2 - 2 PPM.

6. Period of time equipment will be used in mine — indefinite
7. Effective date of permit from February 28, 1979 to indefinite

**CONDITIONS**

- 1 This permit is issued subject to the related state mine laws and rules, procedures and regulations adopted by the office of the State Mine Inspector. Failure to comply with these laws or regulations automatically revokes this permit and will subject the violator to sanctions imposed by law, and such unit will be ordered out of mine
- 2 This permit will be renewed upon application to the office of the State Mine Inspector
- 3 This permit shall be kept in the Mine Office files and displayed upon request of the State Mine Inspector or any of his Deputies
4. This permit is Valid only for the Above Mine

By Lorenzo Martinez  
Deputy Mine Inspector

Joe D. Longacre, Sr.  
State Inspector of Mines

JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES  
Energy and Minerals Department  
Bureau of Mine Inspection  
2340 Menaul, N.E., Suite 106  
Albuquerque, New Mexico 87107

Safety First



Office Telephone 842-3055  
Residence Phone 344-1129

**PERMIT**  
**TO USE DIESEL POWERED EQUIPMENT**  
**IN UNDERGROUND MINE OPERATIONS**

Date March 13, 1979 No. 570991

1. Owner of Mine Ranchers Exploration and Development Corporation
2. Name and location of Mine Hope Mine, Grants, NM
3. General Manager A. Buchanan
4. Location in mine where equipment will be used — throughout
5. Type of Equipment Company No. 1; Manufactured by Young Machine; Type of vehicle - truck;  
passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No. 05552;  
Model No. F4L912W; Serial No. S147; Brake horsepower - 52; Type of scrubber - PTX;  
Equipped with horn, lights - front and rear, brakes - foot and parking, fire  
extinguisher; temperature - 110° F.; CO - 10 PPM; NO2 - 3 PPM.
6. Period of time equipment will be used in mine — indefinite
7. Effective date of permit from February 28, 1979 to indefinite

**CONDITIONS**

- 1 This permit is issued subject to the related state mine laws and rules, procedures and regulations adopted by the office of the State Mine Inspector. Failure to comply with these laws or regulations automatically revokes this permit and will subject the violator to sanctions imposed by law, and such unit will be ordered out of mine.
- 2 This permit will be renewed upon application to the office of the State Mine Inspector.
- 3 This permit shall be kept in the Mine Office files and displayed upon request of the State Mine Inspector or any of his Deputies.
- 4 This permit is Valid only for the Above Mine.

By Lorenzo Martinez  
Deputy Mine Inspector

Joe D. Longacre, Sr.  
State Inspector of Mines

JOE D LONGACRE, SR  
STATE INSPECTOR OF MINES  
Energy and Minerals Department  
Bureau of Mine Inspection  
2340 Menaul, N E, Suite 106  
Albuquerque, New Mexico 87107

Safety First



Office Telephone 842-3055  
Residence Phone 344-1129

**PERMIT**  
**TO USE DIESEL POWERED EQUIPMENT**  
**IN UNDERGROUND MINE OPERATIONS**

Date March 13, 1979 No 570992

1. Owner of Mine Ranchers Exploration and Development Corporation

2. Name and location of Mine Hope Mine, Grants, NM

3. General Manager A. Buchanan

4. Location in mine where equipment will be used — throughout

5. Type of Equipment Company No. 2; Manufactured by Young Machine; Type of vehicle -  
truck; passenger load - one; Kind of engine - Deutz; Cylinders - four; Engine No.  
5705558; Model No. F4L912W; Serial No. S148; Brake horsepower - 52; Type of scrubber -  
PTX; Equipped with horn, lights - front and rear, brakes - foot and parking, fire  
extinguisher; temperature - 115° F.; CO - 12 PPM; NO2 - 2 PPM.

6. Period of time equipment will be used in mine — indefinite

7. Effective date of permit from February 28, 1979 to indefinite

**CONDITIONS**

- 1 This permit is issued subject to the related state mine laws and rules, procedures and regulations adopted by the office of the State Mine Inspector. Failure to comply with these laws or regulations automatically revokes this permit and will subject the violator to sanctions imposed by law, and such unit will be ordered out of mine
- 2 This permit will be renewed upon application to the office of the State Mine Inspector
- 3 This permit shall be kept in the Mine Office files and displayed upon request of the State Mine Inspector or any of his Deputies
- 4 This permit is Valid only for the Above Mine

By Lorenzo Martinez  
Deputy Mine Inspector

Joe D Longacre, Sr  
State Inspector of Mines



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES  
Energy and Minerals Department  
Bureau of Mine Inspection  
2340 Menaul, N.E., Suite 106  
Albuquerque, New Mexico 87107

Safety First



Office Telephone 842-3055  
Residence Phone 344-1129

**PERMIT**  
**TO USE DIESEL POWERED EQUIPMENT**  
**IN UNDERGROUND MINE OPERATIONS**

Date March 13, 1979 No. 5 7 0 9 9 3

1. Owner of Mine Ranchers Exploration and Development Corporation
2. Name and location of Mine Hope Mine, Grants, NM
3. General Manager A. Buchanan
4. Location in mine where equipment will be used — throughout
5. Type of Equipment Company No. 3; Manufactured by Elmco; Type of vehicle - loader;  
passenger load - one; Kind of engine - Deutz; Cylinders - three; Engine No. 5659366;  
Model No. F3L912W; Serial No. 2008; Brake horsepower - 39; Type of scrubber - PTX;  
Equipped with horn, lights - front and rear, brakes - foot and parking, fire  
extinguisher; temperature - 130° F.; CO - 8 PPM; NO2 - 2 PPM.

6. Period of time equipment will be used in mine — indefinite
7. Effective date of permit from February 28, 1979 to indefinite

**CONDITIONS:**

1. This permit is issued subject to the related state mine laws and rules, procedures and regulations adopted by the office of the State Mine Inspector. Failure to comply with these laws or regulations automatically revokes this permit and will subject the violator to sanctions imposed by law, and such unit will be ordered out of mine.
2. This permit will be renewed upon application to the office of the State Mine Inspector.
3. This permit shall be kept in the Mine Office files and displayed upon request of the State Mine Inspector or any of his Deputies.
4. This permit is Valid only for the Above Mine.

By: Lorenzo Martinez  
Deputy Mine Inspector

Joe D. Longacre, Sr.  
State Inspector of Mines

# 3 E/MAC Loader

# DO NOT USE!

THIS EQUIPMENT NOT TO BE USED  
UNTIL THE FOLLOWING HAS BEEN  
CORRECTED.

*Foot Brake is Repaired  
& Hand Brake*

By order of  
Joe D. Longacre, Sr.  
State Inspector of Mines  
by Deputy *[Signature]*

(over)

Corrected by *[Signature]*  
Date *7/6/78*

*Hoist*

# DO NOT USE!

THIS EQUIPMENT NOT TO BE USED  
UNTIL THE FOLLOWING HAS BEEN  
CORRECTED.

*Repair Lower Limits  
on Drum Hoist*

By order of  
Joe D. Longacre, Sr.  
State Inspector of Mines  
by Deputy *[Signature]*

(over)

Corrected by *[Signature]*  
Date *7/6/78*

# 2 E/MAC Loader

# DO NOT USE!

THIS EQUIPMENT NOT TO BE USED  
UNTIL THE FOLLOWING HAS BEEN  
CORRECTED.

*Foot Brake is Repaired*

By order of  
Joe D. Longacre, Sr.  
State Inspector of Mines  
by Deputy *[Signature]*

(over)

Corrected by *[Signature]*  
Date *7/5/78*

Date 7-5-78 Time 11:10

Mine Hope

Company Rancher Exploration & Dev.

Address Orants N. Mex.

Date 11-13-78 Time 9:50

Mine Hope

Company Rancher Expl & Dev.

Address Orants N. Mex.

Date 7-5-78 Time 11:08

Mine Hope

Company Rancher Exploration & Dev.

Address Orants N. Mex.



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

2-6-79 ✓

S-1  
CL-1  
A R-4

Buchanan  
Matthews  
Martinez

**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I. D. No. 2901571 - Hope Mine  
(Ranchers Exploration & Development Corporation) { Mine  
(Name)

Typed November 27, 1978  
November 13, 1978  
(Date of Inspection)

Uranium ..... McKinley ..... Garth Logsdon, Mine Superintendent  
(Classification of Mine) (County in which located) (Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: July 5, 1978

The operation is located in Poison Canyon some 12 miles northwest of Grants, NM. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

Employment:	Company Officials:
Total 24	Paul Matthews, General Manager
Underground 21	Tim Hurley, Engineer
Surface 3	Garth Logsdon, Mine Superintendent

Work Schedule:	Type of Operation: modified room and pillar
Hours per day 8	
Shifts per day 2	
Days per week 5	Fire Drill: 7-6-78

Lost-time injuries to date: one, 1978 First-aid training to date: 100%

Mine Telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent

State of New Mexico  
Lorenzo Martinez, Deputy Inspector of Mines

\_\_\_\_\_  
JOE D. LONGACRE, SR.  
State Inspector of Mines

#### GENERAL HEALTH AND SAFETY

Stretchers, blankets and first-aid kits are available.

Employees are equipped with safety glasses and ear protection.

A fully equipped ambulance is kept at the mine site.

Escape routes are marked.

#### HOIST

Safety dogs on cage were tested, checked and found to be in good working condition. Safety devices on the hoist were tested and checked and found to be in good working condition. Both ropes (cables) were changed 10-22-77. Physical fitness records are up to date. Emergency hoist is checked every month. Last time checked was June 17, 1978.

#### EXPLOSIVES MAGAZINES

The surface explosive magazines are posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

#### VENTILATION

Air readings were taken throughout the mine and the results are as follows:

400 drift some 6,500 c.f.m.  
504 drift some 6,000 c.f.m.  
306 drift some 7,000 c.f.m.  
700 drift some 6,500 c.f.m.

#### DIESEL

Diesel units were checked for CO, NO<sub>2</sub> and exhaust temperatures; the results are as follows:

No. 1 loader, CO - 7 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 115°F.  
No. 2 loader, CO - 10 P.P.M., NO<sub>2</sub> - 3 P.P.M., temperature - 120°F.  
No. 2 truck, CO - 12 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 120°F.  
No. 1 truck, CO - 8 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 115°F.

#### ABATEMENT OF ORDERS ISSUED 7-5-78

Order No. 1, SIM Rule No. 71-1(c); (57.9-3M) Abated 11-13-78.

Order No. 2, SIM Rule No. 71-1(c); (57.9-3M) Abated 11-13-78.

Order No. 3, SIM Rule No. 76-1(c); (57.9-37M) Abated 11-13-78.

#### ABATEMENT OF NOTICES ISSUED 7-5-78

Notice No. 9, Section 63-28-6, NMSA; (57.3-22M) Abated 11-13-78.

Notice No. 10, Section 63-28-6, NMSA; (57.3-22M) Abated 11-13-78.

ORDERS ISSUED 11-13-78

Order No. 1, SIM Rule No. 71-2(c): Lower limits shall be repaired and in working condition at all times on mancase in shaft (red tag). (57.14-120M) Abated 11-13-78.

Order No. 2, SIM Rule No. 71-1(c): Foot brake shall be repaired on No. 1 truck. (red tag) (57.9-3M) Abate by 11-16-78.

NOTICES ISSUED 11-13-78

Notice No. 1, Section 63-27-8, NMSA: A frame ground shall be provided on fan in 500 drift. (57.12-25M) Abated 11-13-78.

Notice No. 2, SIM Rule No. 71-3(c): Fire extinguisher shall be replaced on No. 3 loader. (57.4-23M) Abated 11-13-78.

Notice No. 3, Section 63-28-6, NMSA: Additional ground support shall be provided in 702 east drift. (57.3-22M) Abate by 11-16-78.

Notice No. 4, Section 63-28-6, NMSA: Additional ground support shall be provided in 504 drift. (57.3-22M) Abate by 11-16-78.

The inspection and notices issued were discussed with Mr. Logsdon after the inspection.


ACKNOWLEDGMENT

The courtesy and cooperation of Messrs. Logsdon and Magana and all employees contacted, are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

geb

Approved

  
JOE D. LONGACRE, SR.  
State Inspector of Mines



**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

**SAFETY FIRST**



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I. O. No. 2901571 - Hope Mine

(Ranchers Exploration & Development Corporation) {  
(Name)

Mine

Typed November 27, 1978

} November 13, 1978  
(Date of Inspection)

Uranium  
(Classification of Mine)

McKinley  
(County in which located)

Garth Logsdon, Mine Superintendent  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: July 5, 1978

The operation is located in Polson Canyon some 12 miles northwest of Grants, NM. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 24  
Underground 21  
Surface 3

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer

Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of Operation: modified room and pillar

Fire Drill: 7-6-78

Lost-time injuries to date: one, 1978

First-aid training to date: 100%

Mine Telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent

State of New Mexico

Lorenzo Martinez, Deputy Inspector of Mines

JOE D. LONGACRE, SR.

State Inspector of Mines

#### GENERAL HEALTH AND SAFETY

Stretchers, blankets and first-aid kits are available.

Employees are equipped with safety glasses and ear protection.

A fully equipped ambulance is kept at the mine site.

Escape routes are marked.

#### HOLST

Safety dogs on cage were tested, checked and found to be in good working condition. Safety devices on the hoist were tested and checked and found to be in good working condition. Both ropes (cables) were changed 10-22-77. Physical fitness records are up to date. Emergency hoist is checked every month. Last time checked was June 17, 1978.

#### EXPLOSIVES MAGAZINES

The surface explosive magazines are posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

#### VENTILATION

Air readings were taken throughout the mine and the results are as follows:

400 drift some 6,500 c.f.m.  
504 drift some 6,000 c.f.m.  
306 drift some 7,000 c.f.m.  
700 drift some 6,500 c.f.m.

#### DIESEL

Diesel units were checked for CO, NO<sub>2</sub> and exhaust temperatures, the results are as follows.

No. 1 loader, CO - 7 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 115°F.  
No. 2 loader, CO - 10 P.P.M., NO<sub>2</sub> - 3 P.P.M., temperature - 120°F.  
No. 2 truck, CO - 12 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 120°F.  
No. 1 truck, CO - 8 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 115°F.

#### ABATEMENT OF ORDERS ISSUED 7-5-78

Order No. 1, SM Rule No. 71-1(c); (57.9-3M) Abated 11-13-78.

Order no. 2, SM Rule No. 71-1(c), (57.9-3M) Abated 11-13-78.

Order No. 3, SM Rule No. 71-1(c); (57.9-37M) Abated 11-13-78.

#### ABATEMENT OF NOTICES ISSUED 7-5-78

Notice No. 9, Section 63-28-6, HNSA; (57.3-22M) Abated 11-13-78.

Notice No. 10, Section 63-28-6, HNSA; (57.3-22M) Abated 11-13-78.



**ORDERS ISSUED 11-13-78**

Order No. 1, SM Rule No. 71-2(c): Lower limits shall be repaired and in working condition at all times on mancase in shaft (red tag). (57.14-120M) Abated 11-13-78.

Order No. 2, SM Rule No. 71-1(c): Foot brake shall be repaired on No. 1 truck. (red tag) (57.9-3M) Abate by 11-16-78.

**NOTICES ISSUED 11-13-78**

Notice No. 1, Section 63-27-8, NMSA: A frame ground shall be provided on fan in 500 drift. (57.12-25M) Abated 11-13-78.

Notice No. 2, SM Rule No. 71-3(c): Fire extinguisher shall be replaced on No. 3 loader. (57.4-23M) Abated 11-13-78.

Notice No. 3, Section 63-28-6, NMSA: Additional ground support shall be provided in 702 east drift. (57.3-22M) Abate by 11-16-78.

Notice No. 4, Section 63-28-6, NMSA: Additional ground support shall be provided in 504 drift. (57.3-22M) Abate by 11-16-78.

The inspection and notices issued were discussed with Mr. Logsdon after the inspection.

**ACKNOWLEDGMENT**

The courtesy and cooperation of Messrs. Logsdon and Magana and all employees contacted, are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

geb

Approved

  
JOE D. LONGACRE SR.  
State Inspector of Mines



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107  
6-25-78

S-1  
ch-1  
AR-5  
CMT-4  
Cess-3

Buchanan  
Matthews  
Martinez

**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I. D. No. 2901571 - Hope Mine  
... Ranchers Exploration & Development Corporation { Mine } Typed July 21, 1978  
(Name) { Date of Inspection }  
... Uranium ... McKinley ... Garth Logsdon, Mine Superintendent  
(Classification of Mine) (County in which located) (Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted.

**GENERAL INFORMATION**

Date of previous inspection: February 14, 1978

The operation is located in Poison Canyon some 12 miles northwest of Grants, NM. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 31  
Underground 28  
Surface 3

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer  
Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of Operation: modified room and pillar

Fire drill: December 14, 1977; one due 7-6-78

Lost-time injuries to date: 1978-none First-aid training to date: 65%

Mine Telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent

State of New Mexico  
Lorenzo Martinez, Deputy Inspector of Mines

JOE D. LONGACRE, SR.  
State Inspector of Mines

### GENERAL HEALTH AND SAFETY

Stretchers, blankets and first-aid kits are available.

Employees are equipped with safety glasses and ear protection.

A fully equipped ambulance is kept at the mine site.

Escape routes are marked.

### HOIST

Safety dogs on cage were tested, checked and found to be in good working condition. Safety devices on the hoist were tested and checked and found to be in good working condition. Both ropes (cables) were changed 10-22-77. Physical fitness records are up to date. Emergency hoist is checked every month. Last time checked was June 17, 1978.

### EXPLOSIVES MAGAZINES

The surface explosive magazines are posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

### VENTILATION

Air readings were taken throughout the mine and the results are as follows:

503 west drift some 7,000 c.f.m.  
500 drift some 8,500 c.f.m.  
605 drift some 7,500 c.f.m.  
603 drift some 6,250 c.f.m.  
412 drift some 8,000 c.f.m.

### DIESEL

Diesel units were checked for CO, NO<sub>2</sub> and exhaust temperature, the results are as follows:

No. 2 loader, CO - 8 P.P.M., NO<sub>2</sub> - 1 P.P.M., temperature - 120°F.  
No. 3 loader, CO - 5 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 120°F.  
No. 1 truck, CO - 12 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 115°F.  
No. 2 truck, CO - 7 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 112°F.

### ABATEMENT OF ORDERS ISSUED 2-14-78

Order No. 1, Section 63-28-6, NMSA; (57.3-22M) Abated 7-5-78.

Order No. 2, Section 63-28-6, NMSA; (57.3-22M) Abated 7-5-78.

Order No. 3, Section 63-28-6, NMSA; (57.3-22M) Abated 7-5-78.

Order No. 4, Section 63-28-6, NMSA; (57.3-22M) Abated 7-5-78.

ABATEMENT OF NOTICES ISSUED 2-14-78

Notice No. 4, SIM Rule No. 71-1(c); (57.12-18M) Abated 7-5-78.

Notice No. 5, SIM Rule No. 71-1(c); (57.6-122M) Abated 7-5-78.

Notice No. 6, Section 63-28-6, NMSA; (57.3-22M) Abated 7-5-78.

Notice No. 7, SIM Rule No. 71-3(c); (57.4-23M) Abated 7-5-78.

ORDERS ISSUED 7-5-78

Order No. 1, SIM Rule No. 71-1(c): Foot brake shall be replaced on No. 3 loader. (Red Tagged). (57.9-3M) Abate by 7-12-78.

Order No. 2, SIM Rule No. 71-1(c): Foot brake shall be repaired on No. 2 loader (Red Tagged). (57.9-3M) Abate by 7-12-78.

Order No. 3, SIM Rule No. 76-1(c): Hand brake shall be repaired on No. 3 loader (Red Tagged). (57.9-37M) Abate by 7-12-78

NOTICES ISSUED 7-5-78

Notice No. 1, SIM Rule No. 74-2(c): An I.D. tag shall be provided for employee working in 605 drift (send to surface). (57.11-58M) Abated 7-5-78.

Notice No. 2, Section 63-28-9, NMSA: Vent bag shall be 30 feet from face in 605 drift. Abated 7-5-78.

Notice No. 3, Section 63-26-4, NMSA: Vent bag shall be provided in 503 drift before setting up machine for drilling. Abated 7-5-78.

Notice No. 4, SIM Rule No. 74-2(c): An I.D. tag shall be provided for employee working in 503 drift (send to surface). ~~(57.11-58M) Abated 7-5-78.~~

Notice No. 5, Section 63-4-12, NMSA: Oil shall be cleaned from under hoist drum in hoist building. (57.4-50M) Abated 7-5-78.

Notice No. 6, Section 63-28-91 NMSA: A sign for amount of people to ride cage shall be posted at the collar of shaft and at each shaft level station. Abated 7-5-78.

Notice No. 7, Section 63-27-9(b), NMSA: Dry lumber or rubber mat shall be provided on ground next to power boxes in surface shop. (57.12-20M) Abated 7-5-78.

Notice No. 8, Section 63-28-9, NMSA: Vent bag shall be repaired in 412 drift 50 feet from face. Abated 7-5-78.

Notice No. 9, Section 63-28-6, NMSA: Additional ground support shall be provided in 503 drift. (57.3-22M) Abate by 7-12-78.


Notice No. 10, Section 63-28-6, NMSA: Additional ground support shall be provided in 500 drift. (57.3-22M) Abate by 7-12-78.

The inspection and notices issued were discussed with Mr. Logsdon after the inspection.

ACKNOWLEDGMENT

The courtesy and cooperation of Messrs. Logsdon and Magana and all employees contacted, are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

Approved   
JOE D. LONGACRE SR.  
State Inspector of Mines



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

**I. D. No. 2901571 - Hope Mine**

**Ranchers Exploration & Development Corporation** {  
(Name)

**Mine**

**Typed July 21, 1978**  
**July 5, 1978**  
(Date of Inspection)

**Uranium**

(Classification of Mine)

**McKinley**

(County in which located)

**Garth Logsdon, Mine Superintendent**

(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted.

**GENERAL INFORMATION**

**Date of previous inspection: February 14, 1978**

The operation is located in Poison Canyon some 12 miles northwest of Grants, NM. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ren Development Corporation.

**Employment:**

Total	31
Underground	28
Surface	3

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer  
Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day	8
Shifts per day	2
Days per week	5

**Type of Operation: modified room and pillar**

**Fire drill: December 14, 1977; one due 7-6-78**

**Lost-time injuries to date: 1978-none**      **First-aid training to date: 658**

**Mine Telephone: 287-7012**

**Inspection Party: Ranchers Exploration and Development Corporation**  
**Garth Logsdon, Mine Superintendent**

State of New Mexico

Lorenzo Martinez, Deputy Inspector of Mines

JOE D. LONGACRE, SR.

State Inspector of Mines

### GENERAL HEALTH AND SAFETY

Stretchers, blankets and first-aid kits are available.

Employees are equipped with safety glasses and ear protection.

A fully equipped ambulance is kept at the mine site.

Escape routes are marked.

### HOIST

Safety dogs on cage were tested, checked and found to be in good working condition. Safety devices on the hoist were tested and checked and found to be in good working condition. Both ropes (cables) were changed 10-22-77. Physical fitness records are up to date. Emergency hoist is checked every month. Last time checked was June 17, 1978.

### EXPLOSIVES MAGAZINES

The surface explosive magazines are posted and grounded. The explosive magazine was set on blocks during the last inspection. Someone has used a cutting torch and removed the undercarriage from the magazine.

### VENTILATION

Air readings were taken throughout the mine and the results are as follows:

503 west drift some 7,000 c.f.m.  
500 drift some 8,500 c.f.m.  
605 drift some 7,500 c.f.m.  
603 drift some 6,250 c.f.m.  
412 drift some 8,000 c.f.m.

### DIESEL

Diesel units were checked for CO, NO<sub>2</sub> and exhaust temperature, the results are as follows:

No. 2 loader, CO - 8 P.P.M., NO<sub>2</sub> - 1 P.P.M., temperature - 120°F.  
No. 3 loader, CO - 5 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 120°F.  
No. 1 truck, CO - 12 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 115°F.  
No. 2 truck, CO - 7 P.P.M., NO<sub>2</sub> - 2 P.P.M., temperature - 112°F.

### ABATEMENT OF ORDERS ISSUED 2-14-78

Order No. 1, Section 63-28-6, HNSA, (57.3-22M) Abated 7-5-78.

Order No. 2, Section 63-28-6, HNSA; (57.3-22M) Abated 7-5-78.

Order No. 3, Section 63-28-6, HNSA; (57.3-22M) Abated 7-5-78.

Order No. 4, Section 63-28-6, HNSA; (57.3-22M) Abated 7-5-78.

**ABATEMENT OF NOTICES ISSUED 2-14-78**

Notice No. 4, SIM Rule No. 71-1(c); (57.12-13M) Abated 7-5-78.

Notice No. 5, SIM Rule No. 71-1(c); (57.6-122M) Abated 7-5-78.

Notice No. 6, Section 63-28-6, NMSA; (57.3-22M) Abated 7-5-78.

Notice No. 7, SIM Rule No. 71-3(c); (57.4-23M) Abated 7-5-78.

**ORDERS ISSUED 7-5-78**

Order No. 1, SIM Rule No. 71-1(c): Foot brake shall be replaced on No. 3 loader. (Red Tagged). (57.9-3M) Abate by 7-12-78.

Order No. 2, SIM Rule No. 71-1(c): Foot brake shall be repaired on No. 2 loader (Red Tagged). (57.9-3M) Abate by 7-12-78.

Order No. 3, SIM Rule No. 76-1(c): Hand brake shall be repaired on No. 3 loader (Red Tagged). (57.9-37M) Abate by 7-12-78.

**NOTICES ISSUED 7-5-78**

Notice No. 1, SIM Rule No. 74-2(c): An I.D. tag shall be provided for employee working in 605 drift (send to surface). (57.11-58M) Abated 7-5-78.

Notice No. 2, Section 63-28-9, NMSA: Vent bag shall be 30 feet from face in 605 drift. Abated 7-5-78.

Notice No. 3, Section 63-26-4, NMSA: Vent bag shall be provided in 503 drift before setting up machine for drilling. Abated 7-5-78.

Notice No. 4, SIM Rule No. 74-2(c): An I.D. tag shall be provided for employee working in 503 drift (send to surface). (57.11-58M) Abated 7-5-78.

Notice No. 5, Section 63-4-12, NMSA: Oil shall be cleaned from under hoist drum in hoist building. (57.4-50M) Abated 7-5-78.

Notice No. 6, Section 63-28-91 NMSA: A sign for amount of people to ride cage shall be posted at the collar of shaft and at each shaft level station. Abated 7-5-78.

Notice No. 7, Section 63-27-9(b), NMSA: Dry lumber or rubber mat shall be provided on ground next to power boxes in surface shop. (57.12-20M) Abated 7-5-78.

Notice No. 8, Section 63-28-9, NMSA: Vent bag shall be repaired in 412 drift 50 feet from face. Abated 7-5-78.

Notice No. 9, Section 63-28-6, NMSA: Additional ground support shall be provided in 503 drift. (57.3-22M) Abate by 7-12-78.

Notice No. 10, Section 63-28-6, NMSA: Additional ground support shall be provided in 500 drift. (57.3-22M) Abate by 7-12-78.



I. D. No. 2901571 - Hope Mine  
Ranchers Exploration & Development Corporation

July 5, 1978  
Page 4

The inspection and notices issued were discussed with Mr. Logsdon after the inspection.

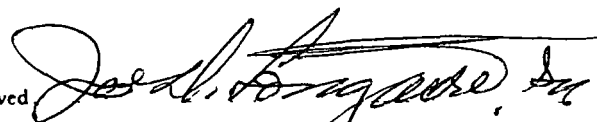
#### ACKNOWLEDGMENT

The courtesy and cooperation of Messrs. Logsdon and Hagana and all employees contacted, are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

gb

Approved



JOE D. LONGACRE, SR.  
State Inspector of Mines

UNITED STATES DEPARTMENT OF THE INTERIOR  
MINING ENFORCEMENT AND SAFETY ADMINISTRATION  
Metal and Nonmetal Mine Health and Safety  
South Central District  
1100 Commerce Street  
Dallas, Texas 75242

*New Mexico*

57 - UG  
N-04

Ranchers Exploration and  
Development Corporation  
P.O. Box 6217  
Albuquerque, New Mexico 87107

Identification No. 29-01571  
Inspection Date(s): July 25-26, 1977  
Inspection No. 5

HEALTH AND SAFETY INSPECTION REPORT

This report is based on an inspection made pursuant to Section 4 of  
the Federal Metal and Nonmetallic Mine Safety Act (80 Stat. 772).

Company: Ranchers Exploration and Development Corporation

Mine Name: Hope Mine Telephone No. 505/287-7012

City: Grants County: McKinley State: New Mexico

Location: 12 miles north of Grants

Type of Mine: Underground Mining Method: Room-and-Pillar Product: Uranium

No. of Employees: 31 Work Schedule: Hours/shift 8 Shifts/day 2 Days/week 5

MESA Inspector(s): Miguel A. Bernal, Metal and Nonmetal Mine Inspector

Company Official: Paul Mathews, General Manager

Union Representative(s): None

Inspection Party: Garth Logsdon, Mine Superintendent  
Alfred Magana, Electrician Foreman  
Edward Earl Roney, Deputy Inspector of Mines

Remarks:	No. of LAST SAFETY NOTICE Issued	--	Date Issued	--
	No. of LAST ORDER Issued	--	Date Issued	--
	No. of LAST HEALTH NOTICE Issued	--	Date Issued	--
	No. of OUTSTANDING NOTICES	--		
	No. of DISABLING INJURIES-1976	2		

Lost time accident(s): No. this calendar year 1 Date of last April 27, 1977

ATF: No( ) Yes(x) - Compliance(x) Noncompliance( )

Permit: No( ) Yes(x) - Permit Number

Date of last fire drill (Underground mines only): May 26, 1977

Part 58: Compliance(x) Noncompliance( ) - Action taken

Date of last Self-Rescuer Training: March 15, 1977

Date of last Mine Emergency Training: March 15, 1977

Due to newness of mine superintendent, he has no knowledge of all company records.

Advised him to start his own records for future reference

A State Plan Agreement was in effect in New Mexico during this inspection.

Air samples were collected during this inspection and have been sent to MESA laboratory facilities for analysis. A supplement to this report will be prepared when analytical results of these samples are received.

#### VIOLATIONS ELIMINATED DURING THE INSPECTION

The symbol (SN) indicates a State Notice and (SO) indicates a State Order was written and abated by the deputy inspector of mines during this inspection. Mandatory standards are indicated by (M) after the reference number.

(SN) 57.4-4(M); The flammable liquids in the surface warehouse were not stored in a fireproof cabinet.

(SN) 57.14-1(M); The universal coupling on the hoist motor was not guarded.

(SN) 57.14-1(M); The pulleys on the surface standby generator were not guarded.

(SN) 57.12-32(M); The cover for the junction box in the surface standby generator building was missing.

(SN) 57.12-34(M); The light bulbs at the 1-5 level near station were not guarded.

(SN) 57.19-45(M); A bonnet was not provided on top of cage for riding or working.

(SN) 57.11-50(M); A secondary escapeway was not provided for emergency purpose.

(SN) 57.4-4(M); The gas container was removed.

(SN) 57.4-23(M); Fire extinguisher was replaced.

(SN) 57.15-5(M); A safety belt with line was worn.

(SN) 57.4-33(M); Compressed gas cylinders were turned off.

(SN) 57.4-23(M); Fire extinguisher was replaced.

(SN) 57.4-23(M); Fire extinguisher was replaced.

(SN) 57.4-4(M); Trash was removed.

(SN) 57.9-87(M); Backup alarm was repaired.

(SN) 57.11-12(M); The manhole cover was put in place.

(SN) 57.6-1(M); Explosives were removed from 1-5 level station.

(SN) 57.13-21(M); A safety chain was installed.

(SN) 57.6-92(M); Explosives were removed.

(SN) 57.6-1(M); Detonators were returned to main magazine.

(SN) 57.4-4(M); Trash was removed from cap magazine.

(SN) 57.4-4(M); Trash was removed from explosives magazine.

(SN) 57.4-4(M); Drill oil was removed from 1-5 station.

(SN) 57.3-22(M); Scale was removed from rib of 400 drift.

(SN) 57.6-27(M); A cover was installed on the explosives magazine of the 400 drift.

(SN) 57.12-25(M); A secondary ground was installed.

(SN) 57.12-32(M); A junction box cover was installed.

(SN) 57.6-20(e)(M); Ground wire was reconnected on surface detonator magazine.

(SN) 57.6-20(e)(M); Ground wire was installed on the surface explosives magazine.

(SN) 57.4-4(M); Used oil outside of air compressor room was removed.

(SN) 57.4-2(M); "No Smoking or Open Flames" signs were posted.

(SN) 57.4-2(M); "No Smoking or Open Flames" signs were posted.

VIOLATIONS COVERED BY  
PROMULGATED STANDARDS

Violations on which the deputy inspector of mines took action are indicated by symbol (SN) for State Notice and (SO) for State Order preceding the violation. Mandatory standards are indicated by (M) after the reference number.

(SO) 57.6-47(M); The front-end loader being used to transport explosives in dipper was not lined or provided with a wooden box.

(SN) 57.12-20(M); The electric control panel at the 1-5 level shop was not provided with a wooden platform or insulated mat on the floor.

(SN) 57.16-5(M); Compressed gas cylinders were not properly secured in an upright position.

(SN) 57.14-1(M); The protruding shaft on the emergency hoist motor was not guarded.

(SN) 57.14-1(M); The left side of the long-hole machine was not guarded.

P/Money-

RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR  
MINING ENFORCEMENT AND SAFETY ADMINISTRATION

Metal and Nonmetal Mine Health and Safety

South Central District

1100 Commerce Street

Dallas, Texas 75202

AUG 22 1977

STATE DEPARTMENT

Ranchers Exploration and Development  
Corporation

Hope Mine

P.O. Box 6217

Albuquerque, New Mexico 87107

SUPPLEMENT To Inspection No. 5

Date(s) of Inspection July 25-26, 1977

Inspector(s) Miguel A. Bernal

Identification No. 29-01571

Air samples collected during the above-referenced inspection indicate the air was of satisfactory quality at the times and places of sampling.

7/25/77

MINE ID

HOPE MINE

COMPANY

Ranchers Exploration Development  
Corp.

STATE

New Mexico

M. A. Bernal

SUBDISTRICT OFFICE

Dallas, TX

DATE REC'D

8/1/77

BOTTLE  
NUMBER

LAB  
NUMBER

LOCATION IN MINE

DATE  
AND  
TIME

CARBON  
DIOXIDE

OXYGEN

METHANE

CARBON  
MONOXIDE

13308

G7-1922

400 drift face

7/25/77  
1:15 pm

.05

20.89

.00

.0000

13310

G7-1923

318 pillar strip east

1:45 pm

.09

20.87

.00

.0008

DATE AUG 03 1977

DATE \_\_\_\_\_

SIGNED

Denver Technical Support Center

UNITED STATES DEPARTMENT OF THE INTERIOR  
MINING ENFORCEMENT AND SAFETY ADMINISTRATION  
Metal and Nonmetal Mine Health and Safety  
South Central District  
1100 Commerce Street  
Dallas, Texas 75202

*O. Martinez*  
*Area Manager*

RECEIVED

AUG 15 1977  
STATE MINE INSPECTOR

Ranchers Exploration and Development  
Corporation  
Hope Mine  
P.O. Box 6217  
Albuquerque, New Mexico 87107

SUPPLEMENT To Inspection No. 4  
Date(s) of Inspection May 15-16, 1977  
Inspector(s) Omer H. Sauvageau  
Identification No. 29-01571

Dust sampling results and other pertinent data included in the attached table.



## RESPIRABLE DUST MEASUREMENTS

### Sampling Method

The dust concentration results included in this report were obtained by the gravimetric dust sampling method. Results are milligrams of respirable dust per cubic meter of air ( $\text{mg}/\text{m}^3$ ).

The dust sampling equipment used consisted of an air pump, 37 mm diameter, 5 micron pore size filter, and a 10 mm cyclone dust classifier in series with the filter. All components were interconnected by tubing and/or fittings to maintain a negative pressure at the cyclone inlet. Sampling equipment was of the "personal" type and the cyclone and accompanying filter assembly were located in the breathing zone of each person sampled.

As air was drawn through the sampling device, the respirable dust was deposited on the filter, with the coarser dust being dropped into the grit pot of the cyclone.

The equipment used met the requirements of the American Conference of Governmental Industrial Hygienists for "respirable" dust sampling and was operated at an air flow rate of 1.7 liters per minute. The flow rate of the apparatus was checked prior to use and was periodically checked during sampling to ensure that the flow rate was maintained.

Each filter was weighed prior to and after sampling, with the difference in weight being the amount of dust collected on the filter.

### Free Silica ( $\text{SiO}_2$ )

Free silica (alpha quartz) analyses were made from the respirable fraction of dust deposited on the filter. The sample location and the results obtained are shown in the appended table(s).

### Threshold Limit Value (TLV)

The 1973 edition of "Threshold Limit Values of Airborne Contaminants and Physical Agents", as published by the American Conference of Governmental Industrial Hygienists, was the source of the applicable Threshold Limit Values. The TLV, in  $\text{mg}/\text{m}^3$ , is the limiting value for exposure to silica-bearing dust for a 7 to 8-hour workday.

The TLV's were calculated for each sample from the following equation:

$$\text{TLV (in mg/m}^3\text{)} = \frac{10}{\% \text{ SiO}_2 + 2}$$

The Time Weighted Average (TWA) concentrations were calculated from the following equation:

$$\text{TWA Conc (mg/m}^3\text{)} = \frac{\text{Dust weight (mg)}}{\text{flow rate (lit./min.)} \times \text{time (min.)} \times .001 \text{ m}^3/\text{lit.}}$$

TWA concentrations exceeding the TLV indicate overexposure.

Mine ID No. 29-01571

Date: May 16, 1977

Product: Uranium

Mine Name: Hope Mine

### Method of Determination

☐ X-Ray Diffraction

☐ OtherType of Sample Analyzed

☐ Welding Fume

☐ Total Airborne Dust

☒ Respirable Airborne Dust

[illegible]

9-19-77

INFORMAL INSPECTIONS OR VISITS

Date 8-4-77

Hope Mine  
(Name and Mine)

McKinley  
(County)

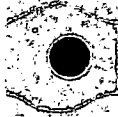
Ranchers Exploration and Development  
(Name and address of individual or company operating mine)

Nature of visit and remarks thereon: Went to check the two orders  
issued by Mr Roney on 7-26-77. Company has  
Complied with the orders.

Manuel Duran  
Deputy Inspector of Mines

# DO NOT USE!

THIS EQUIPMENT NOT TO BE USED  
UNTIL THE FOLLOWING HAS BEEN  
CORRECTED.



*Do not haul any more explosives  
from surface magazine until  
vehicle meets State and Federal  
safety standards*

(over)

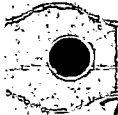
By order of  
Joe D. Longacre, Sr.  
State Inspector of Mines  
by Deputy *Ed Roney*

Corrected by

Date

# DO NOT USE!

THIS EQUIPMENT NOT TO BE USED  
UNTIL THE FOLLOWING HAS BEEN  
CORRECTED.



*318-1111 Split, Bolt back and do  
not advance for 10 days*

(over)

By order of  
Joe D. Longacre, Sr.  
State Inspector of Mines  
by Deputy *Ed Roney*

Corrected by

Date

RECEIVED

AUG 8 1977

Date

7-25-77

Time

1:55 PM

Mine

Hope

Company

Rancher's Exploration & Drilling Co.

Address

Guenther, N.M.

RECEIVED

AUG 8 1977

Date

7-25-77

Time

10:53 A.M.

Mine

Hope

Company

Rancher's Exploration and Dev. Corp.

Address

Guenther, N.M.



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

9-19-77 ✓

S-2  
CL-1  
CMT-3  
AR-3  
CEG 52-2

D14.1  
matthews  
mesa  
martinez  
Roney

**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I. D. No. 2901571 - Hope Mine

(Ranchers Exploration and Development Corp.)

(Name)

Mine

Typed August 1, 1977

July 25, 26, 1977

(Date of Inspection)

Uranium

(Classification of Mine)

McKinley

(County in which located)

Garth Logsdon, Mine Superintendent

(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted

**GENERAL INFORMATION**

Date of previous inspection: March 29, 1977.

The operation is located in Poison Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 31  
Underground 27  
Surface 4

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer  
Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of operation: modified room & pillar

Fire drill: May 26, 1977

Lost-time injuries to date: none

First-aid training to date: 50%

Mine telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent  
Al Magana, Electrical Foreman

**JOE D. LONGACRE, SR.**

**State Inspector of Mines**

Mining Enforcement and Safety Administration  
Mike Bernal, Metal and Nonmetal Mine Inspector

State of New Mexico  
Earl Roney, Deputy Inspector of Mines

GENERAL HEALTH AND SAFETY

Stretchers, blankets and first-aid kits are available.

Employees are equipped with safety glasses and ear protection.

A fully equipped ambulance is kept at the mine site.

HOIST

Safety dogs on the cage were tested, checked and found to be in good working condition. Safety devices on the hoist were tested and checked and after minor adjustments were found to be in good working condition.

Cables on the cage and counterweight were cut on both ends 7-23-77.

EXPLOSIVES MAGAZINES

The surface explosive magazines are posted. The ground wires on the cap magazine had to be reconnected. The powder magazine was not grounded. The powder magazine is mounted on wheels and could be pulled away, this was corrected.

DIESEL

The following diesel units were tested and checked and the results are as follows:  
No. 1 Youngbuggy, CO - 10 P.P.M., NO<sub>2</sub> - no trace, exhaust temperature - 100°F.;  
No. 2 Youngbuggy, CO - 25 P.P.M., NO<sub>2</sub> - a trace, exhaust temperature - 98°F.,  
Elmco No. 1 front-end loader, CO - 20 P.P.M., NO<sub>2</sub> - no trace, exhaust temperature - 110°F.

VENTILATION

In order to be in compliance with the State and Federal Safety Standards, the cubic feet of air per minute required for the diesel units being used underground are 3,300. Each man shall be provided with an additional 500 c.f.m.

Air flow from the fan bags at various locations was checked and the results are as follows: 400 drift some 4,100 c.f.m.; 321 N.W. drift some 1,700 c.f.m.; 500 drift some 1,800 c.f.m.

ABATEMENT OF NOTICES ISSUED 3-10-77

Notice No. 18, SIM Rule No. 74-3(2a); (57.11-53M) Abated 3-17-77.

Notice No. 19, Section 63-25-7, NMSA; (57.6-27M) Abated 3-17-77.

ABATEMENT OF ORDER ISSUED 3-29-77

Order No. 1, Section 63-26-4, NMSA; Abated 7-26-77.

ABATEMENT OF NOTICES ISSUED 3-29-77

Notice No. 4, Section 63-28-6, NMSA; (57.3-22M) Abated 7-26-77.

Notice No. 5, Section 63-28-20, NMSA; (57.15-1M) Abated 7-26-77.

Notice No. 6, Section 63-28-6, NMSA; (57.3-22M) Abated 7-26-77.

ORDERS ISSUED 7-26-77.

Order No. 1, Rule No. 3, Page 119: Provide a vehicle to transport explosives on surface that meets State and Federal Safety Standards. (57.6-47M) Abate by 8-2-77.

Order No. 2, Rules No. 7, Page 124: Wire back and stop advancement in 318 pillar stope east for 10 days. Employee was more than 10 feet ahead of permanent ground support and had most of drift round drilled out. Abate by 8-3-77.

NOTICES ISSUED 7-26-77.

Notice No. 1, SIM Rule No. 71-1(c): Remove five gallon gasoline can from standby generator room (fire hazard). (57.4-4M) Abated 7-26-77.

Notice No. 2, Section 63-28-9, NMSA: Remove wire from wrist pin on top of cage and secure properly. Abated 7-26-77.

Notice No. 3, SIM Rule No. 71-3(c): Replace discharged fire extinguisher near shaft collar. (57.4-23M) Abated 7-26-77.

Notice No. 4, SIM Rule No. 71-2(c): Employee riding on top of cage shall wear a safety belt. (57.15-5M) Abated 7-26-77.

Notice No. 5, SIM Rule No. 71-1(c): Provide a "no smoking" or "open flame" sign for oil storage area on 1-5 level. (57.4-2M) Abated 7-26-77.

Notice No. 6, SIM Rule No. 71-2(c): Unattended compressed gas cylinders shall be turned off and the hoses shall be bled. (57.4-33M) Abated 7-26-77.

Notice No. 7, SIM Rule No. 71-3(c): Replace fire extinguisher on No. 1 Youngbuggy. (57.4-23M) Abated 7-26-77.

Notice No. 8, SIM Rule No. 71-3(c): Replace fire extinguisher on No. 1 front-end loader. (57.4-23M) Abated 7-26-77.

Notice No. 9, SIM Rule No. 71-1(c): Remove trash from the 1-5 shop. (57.4-4M) Abated 7-26-77.

Notice No. 10, SIM Rule No. 76-1(c): Provide a back-up alarm for the 950 Caterpillar front-end loader. (57.9-87M) Abated 7-26-77.



Notice No. 11, Section 63-28-5, NMSA: Cover opening to air and water valves near shaft collar. (57.11-12M) Abated 7-26-77.

Notice No. 12, Section 63-25-1, NMSA: Remove water gel from 1-5 station. (57.6-1M) Abated 7-26-77.

Notice No. 13, SIM Rule No. 75-1(c): Provide a safety tie from live end of air hose in 408 crosscut. (57.13-21M) Abated 7-26-77.

Notice No. 14, SIM Rule No. 71-2(c): Remove deteriorated explosives from 400 drift. (57.6-92M) Abated 7-26-77.

Notice No. 15, Section 63-25-1, NMSA: Put electric caps in the 400 drift in the 1-5 cap magazine. (57.6-1M) Abated 7-26-77.

Notice No. 16, SIM Rule No. 71-1(c): Remove trash from around the 1-5 cap magazine. (57.4-4M) Abated 7-26-77.

Notice No. 17, SIM Rule No. 71-1(c): Remove trash from around the 400 drift explosives magazine. (57.4-4M) Abated 7-26-77.

Notice No. 18, SIM Rule No. 71-1(c): Remove drill oil from the 1-5 station. (57.4-4M) Abated 7-26-77.

Notice No. 19, Section 63-28-9, NMSA: Extend fan bag to within 30 feet of face in 400 drift. Abated 7-26-77.

Notice No. 20, Section 63-28-6, NMSA: Scale ribs in 400 feet drift before mucking. (57.3-22M) Abated 7-26-77.

Notice No. 21, Section 63-25-7, NMSA: Provide a cover for explosives for the 400 drift. (57.6-27M) Abated 7-26-77.

Notice No. 22, Section 63-27-8, NMSA: Provide a secondary ground for the portable Lincoln ore welder. (57.12-25M) Abated 7-26-77.

Notice No. 23, SIM Rule No. 75-2(c): Replace junction box cover on hoist motor. (57.12-32M) Abated 7-26-77.

Notice No. 24, Section 63-25-2, NMSA: Reconnect ground wires on surface cap magazine. (57.6-20(e)M) Abated 7-26-77.

Notice No. 25, Section 63-28-9, NMSA: Immobilize surface explosives magazine. Abated 7-26-77.

Notice No. 26, Section 63-25-2, NMSA: Ground surface explosives magazine. (57.6-20(e)M) Abated 7-26-77.

Notice No. 27, SIM Rule No. 71-1(c): Remove used oil from open container outside compressor room. (57.4-4M) Abated 7-26-77.

Notice No. 28, SIM Rule No. 71-1(c): Provide a "no smoking" or "open flame" sign for surface oil storage area. (57.4-2M) Abated 7-26-77.

Notice No. 29, SIM Rule No. 71-1(c): Provide a "no smoking" or "open flame" sign at diesel fueling area. (57.4-2M) Abated 7-26-77.

Notice No. 30, SIM Rule No. 71-1(c): Secure compressed gas cylinders at surface storage area. (57.16-5M) Abate by 8-2-77.

Notice No. 31, Section 63-28-16, NMSA: Guard protruding shaft on emergency hoist motor. (57.14-1M) Abate by 8-2-77.

Notice No. 32, Section 63-28-16, NMSA: Guard fan pulleys on surface standby generator. (57.14-1M) Abate by 8-2-77.

Notice No. 33, SIM Rule No. 75-2(c): Provide a junction box cover on panel in surface standby generator building. (57.12-32M) Abate by 8-2-77.

Notice No. 34, Section 63-4-12, NMSA: Guard two light bulbs on 1-5 level near station. (57.12-34M) Abate by 8-2-77.

Notice No. 35, Section 63-28-9, NMSA: Provide a dust control device for the 1-5 shop grinder. Abate by 8-2-77.

Notice No. 36, SIM Rule No. 71-1(c): Provide a bonnet above cage when riding or working on top of cage. (57.19-45M) Abate by 8-9-77.

Notice No. 37, Section 63-28-16, NMSA: Provide a guard for the left side of the long hole machine. (57.14-1M) Abate by 8-9-77.

Notice No. 38, SIM Rule No. 71-1(c): Provide a metal cabinet for spray paint and other flammables in surface warehouse. (57.4-4M) Abate by 8-9-77.

Notice No. 39, Section 63-28-16, NMSA: Guard universal coupling on hoist motor. (57.14-1M) Abate by 8-2-77.

Notice No. 40, SIM Rule No. 74-3(c): Provide escape route signs for the 1-5 level. (57.11-53M) Abate by 8-2-77.

Notice No. 41, Section 63-27-9(b), NMSA: Provide an insulating mat under electric control panel in the 1-5 shop. (57.12-20M) Abate by 8-2-77.

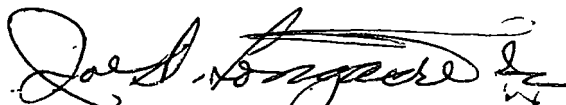
The notices issued were discussed with Messrs. Magana and Logsdon, after the inspection was completed.

#### ACKNOWLEDGMENT

The courtesy and cooperation extended throughout and after the inspection are hereby gratefully acknowledged.

Inspected and Reported by:  
Earl Roney  
Deputy Inspector of Mines

geb

Approved   
JOE D. LONGACRE, SR.  
State Inspector of Mines



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

9-19-77 ✓

S-2  
CL-1  
CMT-3  
AR-3  
Cec. 52-2

Diary  
matthews  
mess  
martinez  
Roney

**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**

**REPORT OF INSPECTION**

I. D. No. 2901571 - Hope Mine  
(Ranchers Exploration and Development Corp.)  
.....  
(Name)

Mine

Typed August 1, 1977  
July 25, 26, 1977  
(Date of Inspection)

Uranium  
(Classification of Mine)

McKinley  
(County in which located)

Garth Logsdon, Mine Superintendent  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: March 29, 1977.

The operation is located in Poison Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 31  
Underground 27  
Surface 4

**Company Officials:**

Paul Matthews, General Manager  
Tim Hurley, Engineer  
Garth Logsdon, Mine Superintendent

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of operation: modified room & pillar

Fire drill: May 26, 1977

Lost-time injuries to date: none

First-aid training to date: 50%

Mine telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corporation  
Garth Logsdon, Mine Superintendent  
Al Magana, Electrical Foreman

**JOE D. LONGACRE, SR.**  
State Inspector of Mines

Mining Enforcement and Safety Administration  
Mike Bernal, Metal and Nonmetal Mine Inspector

State of New Mexico  
Earl Roney, Deputy Inspector of Mines

GENERAL HEALTH AND SAFETY

Stretchers, blankets and first-aid kits are available.

Employees are equipped with safety glasses and ear protection.

A fully equipped ambulance is kept at the mine site.

HOIST

Safety dogs on the cage were tested, checked and found to be in good working condition. Safety devices on the hoist were tested and checked and after minor adjustments were found to be in good working condition.

Cables on the cage and counterweight were cut on both ends 7-23-77.

EXPLOSIVES MAGAZINES

The surface explosive magazines are posted. The ground wires on the cap magazine had to be reconnected. The powder magazine was not grounded. The powder magazine is mounted on wheels and could be pulled away, this was corrected.

DIESEL

The following diesel units were tested and checked and the results are as follows:

No. 1 Youngbuggy, CO - 10 P.P.M., NO<sup>2</sup> - no trace, exhaust temperature - 100°F.;

No. 2 Youngbuggy, CO - 25 P.P.M., NO<sup>2</sup> - a trace, exhaust temperature - 98°F.,

Elmco No. 1 front-end loader, CO - 20 P.P.M., NO<sup>2</sup> - no trace, exhaust temperature - 110°F.

VENTILATION

In order to be in compliance with the State and Federal Safety Standards, the cubic feet of air per minute required for the diesel units being used underground are 3,300. Each man shall be provided with an additional 500 c.f.m.

Air flow from the fan bags at various locations was checked and the results are as follows: 400 drift some 4,100 c.f.m.; 321 N.W. drift some 1,700 c.f.m.; 500 drift some 1,800 c.f.m.

ABATEMENT OF NOTICES ISSUED 3-10-77

Notice No. 18, SIM Rule No. 74-3(2a); (57.11-53M) Abated 3-17-77.

Notice No. 19, Section 63-25-7, NMSA; (57.6-27M) Abated 3-17-77.

ABATEMENT OF ORDER ISSUED 3-29-77

Order No. 1, Section 63-26-4, NMSA; Abated 7-26-77.

ABATEMENT OF NOTICES ISSUED 3-29-77

Notice No. 4, Section 63-28-6, NMSA; (57.3-22M) Abated 7-26-77.

Notice No. 5, Section 63-28-20, NMSA; (57.15-1M) Abated 7-26-77.

Notice No. 6, Section 63-28-6, NMSA; (57.3-22M) Abated 7-26-77.

ORDERS ISSUED 7-26-77

Order No. 1, Rule No. 3, Page 119: Provide a vehicle to transport explosives on surface that meets State and Federal Safety Standards. (57.6-47M) Abate by 8-2-77.

Order No. 2, Rules No. 7, Page 124: Wire back and stop advancement in 318 pillar stope east for 10 days. Employee was more than 10 feet ahead of permanent ground support and had most of drift round drilled out. Abate by 8-3-77.

NOTICES ISSUED 7-26-77

Notice No. 1, SIM Rule No. 71-1(c): Remove five gallon gasoline can from standby generator room (fire hazard). (57.4-4M) Abated 7-26-77.

Notice No. 2, Section 63-28-9, NMSA: Remove wire from wrist pin on top of cage and secure properly. Abated 7-26-77.

Notice No. 3, SIM Rule No. 71-3(c): Replace discharged fire extinguisher near shaft collar. (57.4-23M) Abated 7-26-77.

Notice No. 4, SIM Rule No. 71-2(c): ~~Employee riding on top of cage shall wear a~~ safety belt. (57.15-5M) Abated 7-26-77.

Notice No. 5, SIM Rule No. 71-1(c): Provide a "no smoking" or "open flame" sign for oil storage area on 1-5 level. (57.4-2M) Abated 7-26-77.

Notice No. 6, SIM Rule No. 71-2(c): Unattended compressed gas cylinders shall be turned off and the hoses shall be bled. (57.4-33M) Abated 7-26-77.

Notice No. 7, SIM Rule No. 71-3(c): Replace fire extinguisher on No. 1 Youngbuggy. (57.4-23M) Abated 7-26-77.

Notice No. 8, SIM Rule No. 71-3(c): Replace fire extinguisher on No. 1 front-end loader. (57.4-23M) Abated 7-26-77.

Notice No. 9, SIM Rule No. 71-1(c): Remove trash from the 1-5 shop. (57.4-4M) Abated 7-26-77.

Notice No. 10, SIM Rule No. 76-1(c): Provide a back-up alarm for the 950 Caterpillar front-end loader. (57.9-87M) Abated 7-26-77.

Notice No. 11, Section 63-28-5, NMSA: Cover opening to air and water valves near shaft collar. (57.11-12M) Abated 7-26-77.

Notice No. 12, Section 63-25-1, NMSA: Remove water gel from 1-5 station. (57.6-1M) Abated 7-26-77.

Notice No. 13, SIM Rule No. 75-1(c): Provide a safety tie from live end of air hose in 408 crosscut. (57.13-21M) Abated 7-26-77.

Notice No. 14, SIM Rule No. 71-2(c): Remove deteriorated explosives from 400 drift. (57.6-92M) Abated 7-26-77.

Notice No. 15, Section 63-25-1, NMSA: Put electric caps in the 400 drift in the 1-5 cap magazine. (57.6-1M) Abated 7-26-77.

Notice No. 16, SIM Rule No. 71-1(c): Remove trash from around the 1-5 cap magazine. (57.4-4M) Abated 7-26-77.

Notice No. 17, SIM Rule No. 71-1(c): Remove trash from around the 400 drift explosives magazine. (57.4-4M) Abated 7-26-77.

Notice No. 18, SIM Rule No. 71-1(c): Remove drill oil from the 1-5 station. (57.4-4M) Abated 7-26-77.

Notice No. 19, Section 63-28-9, NMSA: Extend fan bag to within 30 feet of face in 400 drift. Abated 7-26-77.

Notice No. 20, Section 63-28-6, NMSA: Scale ribs in 400 feet drift before mucking. (57.3-22M) Abated 7-26-77.

Notice No. 21, Section 63-25-7, NMSA: Provide a cover for explosives for the 400 drift. (57.6-27M) Abated 7-26-77.

Notice No. 22, Section 63-27-8, NMSA: Provide a secondary ground for the portable Lincoln ore welder. (57.12-25M) Abated 7-26-77.

Notice No. 23, SIM Rule No. 75-2(c): Replace junction box cover on hoist motor. (57.12-32M) Abated 7-26-77.

Notice No. 24, Section 63-25-2, NMSA: Reconnect ground wires on surface cap magazine. (57.6-20(e)M) Abated 7-26-77.

Notice No. 25, Section 63-28-9, NMSA: Immobilize surface explosives magazine. Abated 7-26-77.

Notice No. 26, Section 63-25-2, NMSA: Ground surface explosives magazine. (57.6-20(e)M) Abated 7-26-77.

Notice No. 27, SIM Rule No. 71-1(c): Remove used oil from open container outside compressor room. (57.4-4M) Abated 7-26-77.

Notice No. 28, SIM Rule No. 71-1(c): Provide a "no smoking" or "open flame" sign for surface oil storage area. (57.4-2M) Abated 7-26-77.

Notice No. 29, SIM Rule No. 71-1(c): Provide a "no smoking" or "open flame" sign at diesel fuelling area. (57.4-2M) Abated 7-26-77.

Notice No. 30, SIM Rule No. 71-1(c): Secure compressed gas cylinders at surface storage area. (57.16-5M) Abate by 8-2-77.

Notice No. 31, Section 63-28-16, NMSA: Guard protruding shaft on emergency hoist motor. (57.14-1M) Abate by 8-2-77.

Notice No. 32, Section 63-28-16, NMSA: Guard fan pulleys on surface standby generator. (57.14-1M) Abate by 8-2-77.

Notice No. 33, SIM Rule No. 75-2(c): Provide a junction box cover on panel in surface standby generator building. (57.12-32M) Abate by 8-2-77.

Notice No. 34, Section 63-4-12, NMSA: Guard two light bulbs on 1-5 level near station. (57.12-34M) Abate by 8-2-77.

Notice No. 35, Section 63-28-9, NMSA: Provide a dust control device for the 1-5 shop grinder. Abate by 8-2-77.

Notice No. 36, SIM Rule No. 71-1(c): Provide a bonnet above cage when riding or working on top of cage. (57.19-45M) Abate by 8-9-77.

Notice No. 37, Section 63-28-16, NMSA: Provide a guard for the left side of the long hole machine. (57.14-1M) Abate by 8-9-77.

Notice No. 38, SIM Rule No. 71-1(c): Provide a metal cabinet for spray paint and other flammables in surface warehouse. (57.4-4M) Abate by 8-9-77.

Notice No. 39, Section 63-28-16, NMSA: Guard universal coupling on hoist motor. (57.14-1M) Abate by 8-2-77.

Notice No. 40, SIM Rule No. 74-3(c): Provide escape route signs for the 1-5 level. (57.11-53M) Abate by 8-2-77.

Notice No. 41, Section 63-27-9(b), NMSA: Provide an insulating mat under electric control panel in the 1-5 shop. (57.12-20M) Abate by 8-2-77.


The notices issued were discussed with Messrs. Magana and Logsdon, after the inspection was completed.

#### ACKNOWLEDGMENT

The courtesy and cooperation extended throughout and after the inspection are hereby gratefully acknowledged.

Inspected and Reported by:  
Earl Roney  
Deputy Inspector of Mines

geb

Approved   
JOE D. LONGACRE, SR.  
State Inspector of Mines



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

5-24-77

S-1  
S-AR  
amp-2  
ck-1

Matthews  
Mesa  
Z. Martinez

SAFETY FIRST



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine  
(Ranchers Exploration and Development Corp.)  
.....  
(Name)

Mine

Typed April 6, 1977  
} March 29, 1977  
(Date of Inspection)

Uranium  
(Classification of Mine)

McKinley  
(County in which located)

A. Duffie, Superintendent  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: January 21, 1977

The operation is located in Poison Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 25  
Underground 22  
Surface 3

**Company Officials:**

David Imrie, Superintendent (temporarily)  
Humberto Gonzales, Walker  
Tim Hurley, Engineer  
Paul Matthews, General Manager

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of operation: modified room & pillar

Fire drill: January 24, 1977

Lost-time injuries to date: none

First-aid training to date: 70%

Mine telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corp.  
A. Duffie, Superintendent

State of New Mexico  
Lorenzo Martinez, Deputy Inspector of Mines

\_\_\_\_\_  
JOE D. LONGACRE, SR.  
State Inspector of Mines



### HOIST

The emergency hoist is a Vulcan hoist, 75 HP, 440 volts, 3 phase, 1 speed, 1,160 RPM, low speed 166 RPM, high speed 280 RPM, 12,600 lbs. weight, non-rotating 8x17 7/8 cable. Adaily log is kept on the hoist. The headframe is 54 feet and it is 47 feet from the collar of the shaft to the center of the sheave wheel. An Ingersoll Rand, 2 drum, 550 volts, 150 HP hoist has been constructed. This is the permanent hoist, as it has been installed and is in use. It has a inch non-rotating cable and a 7/8 cable on the counter balance. All the safety devices on the hoist and safety dogs on the cage are in good working condition.

A second emergency hoist has been installed at the new vent hole. The hoist is a Vulcan Denver hoist and is operated by a 30 HP. Air motor made by Compressed Air Products, Model 526. The hoist has a 3/4 non-rotating cable. The Bullet can carry three men. The headframe is 40 feet high and the vent hole is 410 feet deep.

### SHAFT

The shaft, at the time of this inspection, is down to 470 feet. It is 8 feet in diameter and cased with steel tunnel liner. A 60 foot long, 8'x8', pump room has been driven at the 363 foot level. Two pumps will be installed 1-60 HP and 1-40 HP, each capable of pumping 200 gallons of water per minute.

### ELECTRICITY

Electricity is generated by a 300 KVA, 480 volts, three phase, Climax generator. The generator is powered by propane.

### VENTILATION

Ventilation in the shaft is supplied by a 50 HP Joy fan and a 42 inch in diameter vent hole, 240 feet from the shaft. A drift has been driven between the shaft and the vent hole. The north and south run around and the shop area have been completed, also a decline has been completed to the bottom of the shaft for cleaning purposes. The fan provided some 45,000 c.f.m.

Air readings were taken throughout the mine and the results are as follows:

205 east drift some - 5,000 c.f.m.  
400 drift some - 6,000 c.f.m.  
300 drift some - 5,000 c.f.m.  
500 drift - Red Tagged

### FIRST-AID

First-aid equipment consists of an ambulance, stretchers, blankets and a first-aid kit. A notice was issued for stretcher for underground.

### DIESEL

Two diesel units were checked for CO and NO<sub>2</sub> and exhaust temperatures. The results are as follows:

Elmco loader No. 2, temperature - 115° F, CO - 15 P.P.M., NO<sub>2</sub> - 2 P.P.M.

Jarvis loader No. 3, temperature - 115° F, CO - 10 P.P.M., NO<sub>2</sub> - 2 P.P.M.

ABATEMENT OF NOTICES ISSUED 1-21-77

Notice No. 7, Section 63-28-5, NMSA; (57.11-12M) Abated 3-29-77

Notice No. 8, Section 63-28-6, NMSA; (57.3-22M) Abated 3-29-77

Notice No. 9, Section 63-28-6, NMSA; (57.3-22M) Abated 3-29-77

ORDER ISSUED 3-29-77

Order No. 1, Section 63-26-4, NMSA; Ventilation shall be provided in 500 drift at all times. (Red Tagged) Abate by 4-5-77

NOTICES ISSUED 3-29-77

Notice No. 1 SIM Rule No. 71-1(c); Power cable shall be covered in main surface shop. (Stumbling Hazard) (57.12-11M) Abated 3-29-77

Notice No. 2, Section 63-28-9, NMSA; Ventilation bag shall be 30 feet from face in 205 east drift. Abated 3-29-77

Notice No. 3, Section 63-28-17, NMSA; Glasses shall be provided for employee working in 400 drift and shall wear them whenever in or around the mine or plant. (57.15-4M) Abated 3-29-77

Notice No. 4, Section 63-28-6, NMSA; Additional ground support shall be provided on ribs in 300 drift. (57.3-22M) Abate by 4-5-77

Notice No. 5, Section 63-28-20, NMSA; Stretchers shall be provided for underground working areas. (57.15-1M) Abate by 4-5-77

Notice No. 6, Section 63-28-6, NMSA; Scaling shall be provided in decline drift. (57.3-22M) Abate by 4-5-77

At the conclusion of the inspection, all notices were discussed with Mr. A. Diffie, Superintendent.

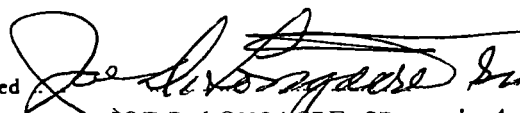
ACKNOWLEDGMENT

The courtesy and cooperation extended are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

acr

Approved

  
JOE D. LONGACRE, SR.  
State Inspector of Mines



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

5-24-77

S-1  
S-AR  
amp-2  
ch-1

Matthews  
Mesa  
Z. Martinez

SAFETY FIRST



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

**SAFETY & CHECKUP**  
**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine  
(Ranchers Exploration and Development Corp.)  
.....  
(Name)

Mine

Typed April 6, 1977  
} March 29, 1977  
(Date of Inspection)

Uranium  
(Classification of Mine)

McKinley  
(County in which located)

A. Diffie, Superintendent  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: January 21, 1977

The operation is located in Polson Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 25  
Underground 22  
Surface 3

**Company Officials:**

David Imrie, Superintendent (temporarily)  
Humberto Gonzales, Walker  
Tim Hurley, Engineer  
Paul Matthews, General Manager

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of operation: modified room & pillar

Fire drill: January 24, 1977

Lost-time injuries to date: none

First-aid training to date: 70%

Mine telephone: 287-7012

Inspection Party: Ranchers Exploration and Development Corp.  
A. Diffie, Superintendent

State of New Mexico  
Lorenzo Martinez, Deputy Inspector of Mines

\_\_\_\_\_  
JOE D. LONGACRE, SR.  
State Inspector of Mines

### HOIST

The emergency hoist is a Vulcan hoist, 75 HP, 440 volts, 3 phase, 1 speed, 1,160 RPM, low speed 166 RPM, high speed 280 RPM, 12,600 lbs. weight, non-rotating 8x17 7/8 cable. A daily log is kept on the hoist. The headframe is 54 feet and it is 47 feet from the collar of the shaft to the center of the sheave wheel. An Ingersoll Rand, 2 drum, 550 volts, 150 HP hoist has been constructed. This is the permanent hoist, as it has been installed and is in use. It has a 1 inch non-rotating cable and a 7/8 cable on the counter balance. All the safety devices on the hoist and safety dogs on the cage are in good working condition.

A second emergency hoist has been installed at the new vent hole. The hoist is a Vulcan Denver hoist and is operated by a 30 HP. Air motor made by Compressed Air Products, Model 526. The hoist has a 3/4 non-rotating cable. The Bucket can carry three men. The headframe is 40 feet high and the vent hole is 410 feet deep.

### SHAFT

The shaft, at the time of this inspection, is down to 470 feet. It is 8 feet in diameter and cased with steel tunnel liner. A 60 foot long, 8'x8', pump room has been driven at the 363 foot level. Two pumps will be installed 1-60 HP and 1-40 HP, each capable of pumping 200 gallons of water per minute.

### ELECTRICITY

Electricity is generated by a 300 KVA, 480 volts, three phase, Climax generator. The generator is powered by propane.

### VENTILATION

Ventilation in the shaft is supplied by a 50 HP Joy fan and a 42 inch in diameter vent hole, 240 feet from the shaft. A drift has been driven between the shaft and the vent hole. The north and south run around and the shop area have been completed, also a decline has been completed to the bottom of the shaft for cleaning purposes. The fan provided some 45,000 c.f.m.

Air readings were taken throughout the mine and the results are as follows:

205 east drift some - 5,000 c.f.m.  
400 drift some - 6,000 c.f.m.  
300 drift some - 5,000 c.f.m.  
500 drift some - Red Tagged

### FIRST-AID

First-aid equipment consists of an ambulance, stretchers, blankets and a first-aid kit. A notice was issued for stretcher for underground.

### DIESEL

Two diesel units were checked for CO and NO<sub>2</sub> and exhaust temperatures. The results are as follows:

Elmco loader No. 2, temperature - 115° F, CO - 15 P.P.M., NO<sub>2</sub> - 2 P.P.M.

Jarvis loader No. 3, temperature - 115° F, CO - 10 P.P.M., NO<sub>2</sub> - 2 P.P.M.

ABATEMENT OF NOTICES ISSUED 1-21-77

Notice No. 7, Section 63-28-5, NMSA; (57.11-12M) Abated 3-29-77

Notice No. 8, Section 63-28-6, NMSA; (57.3-22M) Abated 3-29-77

Notice No. 9, Section 63-28-6, NMSA; (57.3-22M) Abated 3-29-77

ORDER ISSUED 3-29-77

Order No. 1, Section 63-26-4, NMSA; Ventilation shall be provided in 500 drift at all times. (Red Tagged) Abate by 4-5-77

NOTICES ISSUED 3-29-77

Notice No. 1 SIM Rule No. 71-1(c); Power cable shall be covered in main surface shop. (Stumbling Hazard) (57.12-11M) Abated 3-29-77

Notice No. 2, Section 63-28-9, NMSA; Ventilation bag shall be 30 feet from face in 205 east drift. Abated 3-29-77

Notice No. 3, Section 63-28-17, NMSA; Glasses shall be provided for employee working in 400 drift and shall wear them whenever in or around the mine or plant. (57.15-4M) Abated 3-29-77

Notice No. 4, Section 63-28-6, NMSA; Additional ground support shall be provided on ribs in 300 drift. (57.3-22M) Abate by 4-5-77

Notice No. 5, Section 63-28-20, NMSA; Stretchers shall be provided for underground working areas. (57.15-1M) Abate by 4-5-77

Notice No. 6, Section 63-28-6, NMSA; Scaling shall be provided in decline drift. (57.3-22M) Abate by 4-5-77

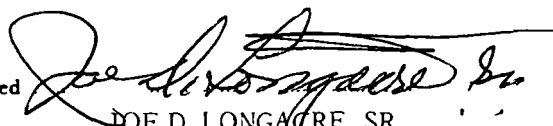
At the conclusion of the inspection, all notices were discussed with Mr. A. Diffie, Superintendent.

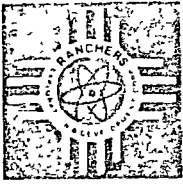
ACKNOWLEDGMENT

The courtesy and cooperation extended are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

acr

Approved   
JOE D. LONGACRE, SR.  
State Inspector of Mines



*Please make copies for Quinones, Martinez & Vaca*  
*made 3-22-77*

**RANCHERS EXPLORATION AND DEVELOPMENT CORPORATION**

HOPE MINE / P O BOX 1210 / GRANTS, N M 87020 / TELEPHONE (505)876-2289

March 14, 1977

RECEIVED

MAR 22 1977  
*[Signature]*  
STATE MINE INSPECTOR

NOTICE

Anyone caught without proper eye protection and hearing protection will receive one verbal warning first offense, one written warning second offense, one 3 day lay off third offense, and the forth offense shall be a mandatory termination.

*Arbie B. Diffie*

Arbie B. Diffie

-----Mine-Superintendent-----

jm



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107  
3-23-77 ✓

Blair  
Matthews  
Mesa  
matthews  
M. Duran

**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

S-1  
CL-1  
CMT-2  
AR-1

**SAFETY & CHECKUP**

**REPORT OF INSPECTION**

I. D. No. 2901571 - Hope Mine  
(Ranchers Exploration and Development Corp.)  
.....  
(Name)

Mine

Typed January 24, 1977  
January 17, 1977  
(Date of Inspection)

Uranium  
.....  
(Classification of Mine)

McKinley  
.....  
(County in which located)

Tim Hurley, Engineer  
.....  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted

**GENERAL INFORMATION**

Date of previous inspection: December 6, 1976

The operation is located in Poison Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above named operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 32  
Underground 14

**Company Officials:**

David Imrie, Superintendent (temporarily)  
Humberto Gonzales, Walker  
Tim Hurley, Engineer  
Paul A. Matthews, General Manager

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Type of operation: modified room & pillar

Dire drill: August 11, 1976

Lost-time injuries to date: none

First-aid training to date: 70%

Inspection Party: Ranchers Exploration and Development Corp.  
David Imrie, Superintendent  
Tim Hurley, Engineer

State of New Mexico  
Manuel Duran, Deputy Inspector of Mines

**JOE D. LONGACRE, SR.**  
State Inspector of Mines

### HOIST

The emergency hoist is a Vulcan hoist, 75 HP, 440 volts, 3 phase, 1 speed, 1,160 RPM, low speed 166 RPM, high speed 280 RPM, 12,600 lbs. weight, non-rotating 8x17 7/8 cable. A daily log is kept on the hoist. The headframe is 54 feet and it is 47 feet from the collar of the shaft to the center of the sheave wheel. An Ingersoll Rand, 2 drum, 550 volts, 150 HP hoist has been constructed. This is the permanent hoist, as it has been installed and is in use. It has a 1 inch non-rotating cable and a 7/8 cable on the counter balance. All the safety devices on the hoist and safety dogs on the cage are in good working condition.

A second emergency hoist has been installed at the new vent hole. The hoist is a Vulcan Denver hoist and is operated by a 30 HP. Air motor made by Compressed Air Products, Model 526. The hoist has a 3/4 non-rotating cable. The Bucket can carry three men. The headframe is 40 feet high and the vent hole is 410 feet deep.

### SHAFT

The shaft, at the time of this inspection, is down to 470 feet. It is 8 feet in diameter and cased with steel tunnel liner. A 60 foot long, 8'x8', pump room has been driven at the 363 foot level. Two pumps will be installed 1-60 HP and 1-40 HP, each capable of pumping 200 gallons of water per minute. The slusher trench has been cut and concreted and is in operation.

### ELECTRICITY

Electricity is generated by a 300 KVA, 480 volts, three phase, Climax generator. The generator is powered by propane.

### VENTILATION

Ventilation in the shaft is supplied by a 50 HP Joy fan and a 42 inch in diameter vent hole, 240 feet from the shaft. A drift has been driven between the shaft and the vent hole. The north and south run around and the shop area have been completed, also a decline has been completed to the bottom of the shaft for cleaning purposes. The fan provided some 45,000 c.f.m.

### FIRST-AID

First-aid equipment consists of an ambulance, stretchers, blankets and a first-aid kit.

### COMMUNICATION

A two-way radio is used for communication.

### DIESEL

Two (2) diesel units were inspected and found not to be in compliance with the New Mexico Mine Safety Code, Rule No. 12 of the Rules Governing Diesel Equipment in Underground Mines for the State of New Mexico.

Eimco loader No. 2, temperature - 92°F, CO - 30 P.P.M., NO<sub>2</sub> - 10 P.P.M.

Jarvis loader No. 3, temperature - 70°F, CO - 10 P.P.M., NO<sub>2</sub> - 7 P.P.M.



ABATEMENT OF NOTICES ISSUED 12-6-77

Notice No. 2, Section 63-28-16, NMSA; (57.14-1M) Abated 1-17-77.

Notice No. 3, SIM Rule No. 71-1(c); (57.16-6M) Abated 1-17-77.

Notice No. 4, SIM Rule No. 71-1(c); (57.16-5M) Abated 1-17-77.

Notice No. 5, Rules and Regulations Effective in the Uranium Mining Areas, Paragraph No. 9; Abated 1-17-77.

Notice No. 6, Section 63-28-1, NMSA; (57.3-20M) Abated 1-17-77.

NOTICES ISSUED 1-17-77

Notice No. 1, SIM Rule No. 71-1(c): The Black and Decker hand drill in the shop shall have the locking button removed from the switch. (57.14-10M) Abated 1-17-77.

Notice No. 2, Rules and Regulations Effective in the Uranium Mining Areas, Paragraph No. 1(a): The mines in 1 south off of 1 east shall be provided with a roofjack or safety stull. Abated 1-17-77.

Notice No. 3, Section 63-28-1, NMSA: The roofbolts in 2 south off of 1 east shall be retightened. (57.3-20M) Abated 1-17-77.

Notice No. 4, Section 63-28-1, NMSA: The roofbolts from 2 south to the face of 1 east shall be retightened. (57.3-20M) Abated 1-17-77.

Notice No. 5, SIM Rule No. 71-1(c): Elmco loader No. 2 shall be provided with a fire extinguisher. (57.4-23M) Abated 1-17-77.

Notice No. 6, Section 63-28-16, NMSA: The walkway over the slusher trench shall be provided with a handrail. (57.11-2M) Abate by 1-24-77.

Notice No. 7, SIM Rule No. 71-1(c): Gates shall be provided at the station off of the shaft. (57.19-100M) Abate by 1-24-77.

Notice No. 8, Rules Governing Diesel Equipment in Underground Mines for the State of New Mexico: Elmco loader No. 2 shall have the nitrogen dioxide (NO<sub>2</sub>) content reduced to permissible working P.P.M. by volume (red tagged). Abate by 1-17-77.

Notice No. 9, Rules Governing Diesel Equipment in Underground Mines for the State of New Mexico: Jarvis loader No. 3 shall have the nitrogen dioxide (NO<sub>2</sub>) content reduced to permissible working P.P.M. by volume (red tagged). Abate by 1-17-77.


At the conclusion of the inspection, all notices were discussed with Messrs. Imrie, Superintendent and Hurley, Engineer.

ACKNOWLEDGMENT

The courtesy and cooperation extended are hereby gratefully acknowledged.

Inspected and Reported by:  
Manuel Duran  
Deputy Inspector of Mines

Approved

  
JOE D. LONGACRE SR.  
State Inspector of Mines

**Memo**

From the desk of

JOE D. LONGACRE, SR.  
State Inspector of Mines

3-7-77

Sent registrations to:

Mr. D. A. Matthews  
Ranchers

jmz



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N E, SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107  
3-23-77 ✓

*Matthews  
Mesa  
Martinez*

**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

S-1  
Ch-1  
AR-5  
CMI-2

**SAFETY & CHECKUP**

**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine

Ranchers Exploration and Development Corporation {  
(Name)

Mine

Typed March 7, 1977

} February 21, 1977  
(Date of Inspection)

...Uranium...  
(Classification of Mine)

...McKinley...  
(County in which located)

...Tim Hurley, Engineer...  
(Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted

**GENERAL INFORMATION**

Date of previous inspection: January 17, 1977

The operation is located in Poison Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above mentioned operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 27  
Underground 16  
Surface 11

**Company Officials:**

Arbie Diffie, Superintendent  
Bill Green, Walker  
Tim Hurley, Engineer  
Paul Matthews, General Manager

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Mine telephone: 287-7012

Type of operation: modified room and pillar

Fire drill was held January 4, 1977

Lost-time injuries to date: none

First-aid training to date: 70%

Inspection Party: Ranchers Exploration and Development Corporation  
Arbie Diffie, Superintendent  
Tim Hurley, Engineer

State of New Mexico  
Lorenzo Martinez, Deputy Inspector of Mines

JOE D. LONGACRE, SR.  
State Inspector of Mines

### HOIST

The emergency hoist is a Vulcan hoist, 75 HP, 440 volts, 3 phase, 1 speed, 1,160 RPM, low speed 166 RPM, high speed 280 RPM, 12,600 lbs. weight, non-rotating 8x17 7/8 cable. A daily log is kept on the hoist. The headframe is 54 feet and it is 47 feet from the collar of the shaft to the center of the sheave wheel. An Ingersoll Rand, 2 drum, 550 volts, 150 HP hoist has been constructed. This is the permanent hoist, as it has been installed and is in use. It has an inch non-rotating cable and a 7/8 cable on the counter balance. All the safety devices on the hoist and safety dogs on the cage are in good working condition.

A second emergency hoist has been installed at the new vent hole. The hoist is a Vulcan Denver hoist and is operated by a 30 HP. Air motor made by Compressed Air Products, Model 526. The hoist has a 3/4 non-rotating cable. The Bucket can carry three men. The headframe is 40 feet high and the vent hole is 410 feet deep.

### SHAFT

The shaft, at the time of this inspection, is down to 470 feet. It is 8 feet in diameter and cased with steel tunnel liner. A 60 foot long, 8'x8' pump room has been driven at the 363 foot level. Two pumps will be installed 1-60 HP and 1-40 HP, each capable of pumping 200 gallons of water per minute. The company is now driving drifts.

### ELECTRICITY

Electricity is generated by a 300 KVA, 480 volts, three phase, Climax generator, the generator is powered by propane.

### VENTILATION

Ventilation in the shaft is supplied by a 50 HP Joy fan and a 42 inch in diameter vent hole, 240 feet from the shaft. A drift has been driven between the shaft and the vent hole. The north and south run around and the shop are have been completed, also a decline has been completed to the bottom of the shaft for cleaning purposes. The fan provided some 45,000 c.f.m.

### FIRST-AID

First-aid equipment consists of an ambulance, stretchers, blankets and a first-aid kit. The nearest doctor is in Grants, New Mexico.

### COMMUNICATION

Regular telephones are used for communication.

### DIESEL

Two diesel units were inspected and found not to be in compliance with the New Mexico Mine Safety Code, Rule No. 12 of the Rules Governing Diesel Equipment in Underground Mines for the State of New Mexico.

Einco loader No. 2, temperature - 110° F.; CO - 20 PPM; NO<sub>2</sub> - 1 PPM  
Jarvis loader No. 3, temperature - 100° F.; CO - 20 PPM; NO<sub>2</sub> - 2 PPM

### VENTILATION

Air readings were taken throughout the mine and the results are as follow:

311 drift - some 6,000 c.f.m.  
312 drift - some 6,000 c.f.m.  
200 drift - some 8,000 c.f.m.  
204 drift - some 6,500 c.f.m.  
202 drift - some 7,000 c.f.m.

### ABATEMENT OF NOTICES ISSUED 1-17-77

Notice No. 6, Section 63-28-16, NMSA; (57.11-2M) Abated 2-21-77.

Notice No. 7, SIM Rule No. 71-1(c); (57.19-100M) Abated 2-21-77.

Notice No. 8, Rules Governing Diesel Equipment in Underground Mines for the State of New Mexico; Abated 2-21-77.

Notice No. 9, Rules Governing Diesel Equipment in Underground Mines for the State of New Mexico; Abated 2-21-77.

### NOTICES ISSUED 2-21-77

Notice No. 1, SIM Rule No. 71-1(c): Blasting line shall be rehung and insulated in 311 drift. (57.6-122M) Abated 2-21-77.

Notice No. 2, SIM Rule No. 71-1(c): Blasting line shall be rehung and insulated in 204 drift. (57.6-122M) Abated 2-21-77.

Notice No. 3, SIM Rule No. 74-4(c): A self-rescue shall be provided for employee in 202 drift. (57.18-28M) Abated 2-21-77.

Notice No. 4, Section 63-28-9, NMSA: ~~Ventilation bag shall be within 30 feet of face in 202 drift.~~ Abated 2-21-77.

Notice No. 5, SIM Rule No. 71-1(c): Blasting line shall be rehung and insulated in 200 drift. (57.6-122M) Abated 2-21-77.

Notice No. 6, Section 63-28-16, NMSA: A cover guard shall be provided next to fan belts on 911 loader. (57.14-1M) Abated 2-21-77.

Notice No. 7, Section 63-28-5, NMSA: A cover guard next to cage on 1-4 level shall be provided. (57.11-12M) Abate by 2-28-77.

Notice No. 8, Section 63-28-6, NMSA: Additional ground support shall be provided in 204 drift. (57.3-22M) Abate by 2-28-77.

Notice No. 9, Section 63-28-6, NMSA: Additional ground support shall be provided in sump Incline. (57.3-22M) Abate by 2-28-77.


At the conclusion of the inspection, all notices were discussed with Messrs. Diffie, Superintendent; and Hurley, Engineer.

ACKNOWLEDGEMENT

The courtesy and cooperation extended are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

Jmz

Approved,   
JOE D LONGACRE, SR.  
State Inspector of Mines



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107  
3-23-77 ✓

*Matthews  
Mesa  
Martinez*  
**SAFETY FIRST**



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

S-1  
Ch-1  
AR-5  
CMT-2

**SAFETY & CHECKUP**

**REPORT OF INSPECTION**

I.D. No. 2901571 - Hope Mine  
Ranchers Exploration and Development Corporation { Mine  
(Name)  
Typed March 7, 1977  
February 21, 1977  
(Date of Inspection)  
...Uranium... McKinley... Tim Hurley, Engineer...  
(Classification of Mine) (County in which located) (Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

**GENERAL INFORMATION**

Date of previous inspection: January 17, 1977

The operation is located in Poison Canyon some 12 miles northwest of Grants, New Mexico. The operation is owned and operated by Ranchers Exploration and Development Corporation. The above mentioned operation was formerly operated by Kop-Ran Development Corporation.

**Employment:**

Total 27  
Underground 16  
Surface 11

**Company Officials:**

Arbie Diffie, Superintendent  
Bill Green, Walker  
Tim Hurley, Engineer  
Paul Matthews, General Manager

**Work Schedule:**

Hours per day 8  
Shifts per day 2  
Days per week 5

Mine telephone: 287-7012

Type of operation: modified room and pillar

Fire drill was held January 4, 1977

Lost-time injuries to date: none

First-aid training to date: 70%

Inspection Party: Ranchers Exploration and Development Corporation  
Arbie Diffie, Superintendent  
Tim Hurley, Engineer

State of New Mexico

Lorenzo Martinez, Deputy Inspector of Mines

JOE D. LONGACRE, SR.

State Inspector of Mines

### HOIST

The emergency hoist is a Vulcan hoist, 75 HP, 440 volts, 3 phase, 1 speed, 1,160 RPM, low speed 166 RPM, high speed 280 RPM, 12,600 lbs. weight, non-rotating 8x17 7/8 cable. A dally log is kept on the hoist. The headframe is 54 feet and it is 47 feet from the collar of the shaft to the center of the sheave wheel. An Ingersoll Rand, 2 drum, 550 volts, 150 HP hoist has been constructed. This is the permanent hoist, as it has been installed and is in use. It has an inch non-rotating cable and a 7/8 cable on the counter balance. All the safety devices on the hoist and safety dogs on the cage are in good working condition.

A second emergency hoist has been installed at the new vent hole. The hoist is a Vulcan Denver hoist and is operated by a 30 HP. Air motor made by Compressed Air Products, Model 526. The hoist has a 3/4 non-rotating cable. The Bullet can carry three men. The headframe is 40 feet high and the vent hole is 410 feet deep.

### SHAFT

The shaft, at the time of this inspection, is down to 470 feet. It is 8 feet in diameter and cased with steel tunnel liner. A 60 foot long, 8'x8' pump room has been driven at the 363 foot level. Two pumps will be installed 1-60 HP and 1-40 HP, each capable of pumping 200 gallons of water per minute. The company is now driving drifts.

### ELECTRICITY

Electricity is generated by a 300 KVA, 480 volts, three phase, Climax generator, the generator is powered by propane.

### VENTILATION

Ventilation in the shaft is supplied by a 50 HP Joy fan and a 42 inch in diameter vent hole, 240 feet from the shaft. A drift has been driven between the shaft and the vent hole. The north and south run around and the shop are have been completed, also a decline has been completed to the bottom of the shaft for cleaning purposes. The fan provided some 45,000 c.f.m.

### FIRST-AID

First-aid equipment consists of an ambulance, stretchers, blankets and a first-aid kit. The nearest doctor is in Grants, New Mexico.

### COMMUNICATION

Regular telephones are used for communication.

### DIESEL

Two diesel units were inspected and found not to be in compliance with the New Mexico Mine Safety Code, Rule No. 12 of the Rules Governing Diesel Equipment In Underground Mines for the State of New Mexico.

Elmco loader No. 2, temperature - 110° F.; CO - 20 PPM; NO<sub>2</sub> - 1 PPM  
Jarvis loader No. 3, temperature - 100° F.; CO - 20 PPM; NO<sub>2</sub> - 2 PPM



### VENTILATION

Air readings were taken throughout the mine and the results are as follow:

311 drift - some 6,000 c.f.m.  
312 drift - some 6,000 c.f.m.  
200 drift - some 8,000 c.f.m.  
204 drift - some 6,500 c.f.m.  
202 drift - some 7,000 c.f.m.

### ABATEMENT OF NOTICES ISSUED 1-17-77

Notice No. 6, Section 63-28-16, NMSA; (57.11-2M) Abated 2-21-77.

Notice No. 7, SIM Rule No. 71-1(c); (57.19-100M) Abated 2-21-77.

Notice No. 8, Rules Governing Diesel Equipment in Underground Mines for the State of New Mexico; Abated 2-21-77.

Notice No. 9, Rules Governing Diesel Equipment in Underground Mines for the State of New Mexico; Abated 2-21-77.

### NOTICES ISSUED 2-21-77

Notice No. 1, SIM Rule No. 71-1(c): Blasting line shall be rehung and insulated in 311 drift. (57.6-122M) Abated 2-21-77.

Notice No. 2, SIM Rule No. 71-1(c): Blasting line shall be rehung and insulated in 204 drift. (57.6-122M) Abated 2-21-77.

Notice No. 3, SIM Rule No. 74-4(c): A self-rescue shall be provided for employee in 202 drift. (57.18-28M) Abated 2-21-77.

Notice No. 4, Section 63-28-9, NMSA: ~~Ventilation bag shall be within 30 feet of face in 202 drift.~~ Abated 2-21-77.

Notice No. 5, SIM Rule No. 71-1(c): Blasting line shall be rehung and insulated in 200 drift. (57.6-122M) Abated 2-21-77.

Notice No. 6, Section 63-28-16, NMSA: A cover guard shall be provided next to fan belts on 911 loader. (57.14-1M) Abated 2-21-77.

Notice No. 7, Section 63-28-5, NMSA: A cover guard next to cage on 1-4 level shall be provided. (57.11-12M) Abate by 2-28-77.

Notice No. 8, Section 63-28-6, NMSA: Additional ground support shall be provided in 204 drift. (57.3-22M) Abate by 2-28-77.

Notice No. 9, Section 63-28-6, NMSA: Additional ground support shall be provided in sump Incline. (57.3-22M) Abate by 2-28-77.

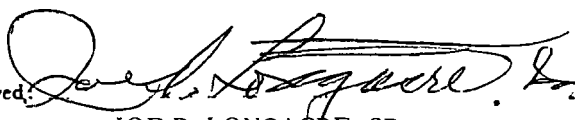
At the conclusion of the inspection, all notices were discussed with Messrs. Diffie, Superintendent; and Hurley, Engineer.

ACKNOWLEDGEMENT

The courtesy and cooperation extended are hereby gratefully acknowledged.

Inspected and Reported by:  
Lorenzo Martinez  
Deputy Inspector of Mines

jmz

Approved:   
JOE D LONGACRE, SR.  
State Inspector of Mines



**RANCHERS EXPLORATION AND DEVELOPMENT CORPORATION**

Box 6217 / 1776 Montano Road, N W / Albuquerque, New Mexico 87107 / Telephone (505) 344-3542

March 4, 1977

RECEIVED

MAR 7 1977  
STATE MINE INSPECTOR

*Arbie Diffie*  
*Lolo and Mesa* made 3-14-77 *jm3*

*File*

Mr. Joe Longacre  
N. M. State Inspector of Mines  
2340 Menaul NE, Suite 106  
Albuquerque, New Mexico 87107

Re: Hope Mine, S. 19, T. 13 N., R. 9 W.

Dear Joe:

Please be advised that the Hope has now entered the production phase. Mr. Arbie Diffie is mine superintendent and is in charge of the property.

Sincerely,

*Paul A. Matthews*  
Paul A. Matthews  
Vice President  
Operations

PAM:bbh

Hope Mine

Box 1210

Grant, N. Mex  
87020

made 1-26-77 W. F.

Jan 18, 1977

M. Duran / Miss

RECEIVED

JAN 24 1977

STATE MINE INSPECTOR

File  
Gentlemen,

The  $\text{NO}_2$  content of the exhaust  
on these two machines has been  
tested and has been reduced to  
permissible working PPM by Volume.

Edward T Hurley

Geologist - Engineer

Hope Mine (Ranchero Expl. & Dev. Corp.)

**DO NOT USE!**

THIS EQUIPMENT NOT TO BE USED  
UNTIL THE FOLLOWING HAS BEEN  
CORRECTED.

*Bolts & wire back before*

*any other work is performed*

*in 701 west*

By order of

Joe D. Longacre, Sr.

State Inspector of Mines

by Deputy *[Signature]*

(over)

Corrected by *[Signature]*

Date *7/10/79*

**DO NOT USE!**

THIS EQUIPMENT NOT TO BE USED  
UNTIL THE FOLLOWING HAS BEEN  
CORRECTED.

*6507*

BUREAU OF MINE INSPECTION

*Not stored ground*  
*Support, strength, from 2nd 5th*

By order of

Joe D. Longacre, Sr.

State Inspector of Mines

by Deputy *[Signature]*

(over)

Corrected by *[Signature]*

Date *7-10-79*

**DO NOT USE!**

THIS EQUIPMENT NOT TO BE USED  
UNTIL THE FOLLOWING HAS BEEN  
CORRECTED.

*NO Content reduced to permissible*  
*Working PPM by Volume*

By order of

Joe D. Longacre, Sr.

State Inspector of Mines

by Deputy *Manuel Duran*

(over)

Corrected by *[Signature]*

Date *1-18-77*

Date 1-17-77 Time 2:00 P.M.  
Mine Hope mine  
Company Ranchers Explor  
Address Santa N.M.

RECEIVED  
JAN 20 1977  
STATE MINE INSPECTOR

Date 7-2-79 Time 1:50 PM  
Mine Section 35  
Company Beaumont Machine Corp.  
Address Gambour Lake

Date 7-10-79 Time 10:45 AM  
Mine Hope  
Company Ranchers Exp. and Drilling  
Address Greene, N.M.